

# Project Document on Consultancy Project Cyber Security

Doc. No : CBIT:REHub:01
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#### CBIT, Hyderabad and Kernel Sphere, Hyderabad

## Project Title: AI BASED TRANSFORMER MONITORING

Prepared by Dr.N.Vasantha Gowri

Checked by

Approved by

**July 2020** 



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## **Project Document**

1.0 Project Summary:

1.1 Title of the Project : AI Based Transformer Monitoring

1.2 Project Coordinator : Dr.N. Vasantha Gowri

1.3 Project Leader & Team from CSE: Ms.G. Vanitha

1.4 Project Leader & Team from ECE: Mr.G.Mallikarjun Rao

1.5 Project Leader & Team from IT : Ms.T.Pratima

1.6 Project Leader & Team from EEE : Dr.N.Vasantha Gowri

1.7 Students involved in the Project

Sl.No	Name of Student	Roll Number	Branch
1.	Bolisetty Bhargav Sai	160117733301	CSE
2.	Sri Sai Dyavanapally	160117733049	CSE
3.	Abhay Singh Baloria	160117733061	CSE
4.	Sreshta Rushya Putchala	160117733140	CSE
5.	Rohit Dandamudi	160117733185	CSE
6.	Sai kumar Ramavath	160118734304	EEE
7.	N.Akshith	160117734074	EEE
8.	Y.Ranadeer	160117734317	EEE
9.	Nayskanti vinoothna	160117735145	ECE
10.	Gudaru Pragati	160117735134	ECE
11.	Syed Danish Hussaini	160117737057	IT



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#### 1.8 Project synopsis:

**Introduction:** Distribution transformer is one of the important equipments in distribution network. It is proposed to monitor the distribution transformer present in the third party electrical network proposed by kernelsphere pvt ltd. It is intended to acquire the data from the network through sensors and that will be analyzed and the monitoring and control model will be designed.

#### **Brief Description of the Project/System**

The project named "Artificial Intelligence based transformer monitoring" is proposed by Kernelsphere Pvt Ltd. The proposal says that the distribution transformers in the field of third party are to be closely monitored and analytical models are to be developed.

Role of Kernelsphere: To implement all the required hardware including sensors in the field

To provide the data to the team in CBIT to data analysis and project

modeling

To provide continuous technical support from Kernel sphere to the

project

**Role of CBIT** : To acquire the data provided by Kernelsphere Pvt Ltd

To analyze the given data to formulate better indicator and predictive

models

To work along with Kernelsphere pvt ltd to bring out a dashboard of

the monitoring system

Co-ordinator : Dr.N. Vasantha Gowri, AP EEE CBIT

Data analytics team : Ms.G. Vanitha AP, CSE, CBIT

Ms.Pratima AP,IT CBIT

User Interface (UI)Team: Mr.Govardhan Reddy AP,IT, CBIT

Mr.Krishna Kernel Sphere

Domain & installation: Dr.N. Vasantha Gowri, AP EEE CBIT

Mr.Mallikarjun Rao, AP, ECE, CBIT

#### 1.9 Critical Gaps

- **1. Systems Design& Analysis:** Data for the analysis is yet to be released: Current analysis has been carried out by using sample data provided by kernel sphere
- **2. Design vetting/simulation:** Number / scope of data analysis is yet to be finalized once acquirement of original data
- **3. Development of subsystems:** subsystems in this project are the data monitoring and prediction models, which are made ready for the sample data
- 4. Modeling of the system: --
- **5. Quality testing** : Will be done after hardware implementation
- **6. Integration and Implementation:** Will be done after hardware implementation
- **7. Performance evaluation:** Will be done after hardware implementation



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#### 1.10 Milestones:

Sl.No	<b>Description of Milestone</b>	Start Date	Finish Date – months from start	Dept. Involved
1.	The Data is now being read directly from the api. The graphs for all time values as well as for last week are plotted along with the highlighted thresholds and a warning message if any value crosses the thresholds within the limits. Graphs for voltage lines are available in cv_ui. Power Factor Graphs are in pf_ui. Temperature, level graphs are in overview_ui. KW, KVA and Load prediction is done in KW_prediction. Along with the rmse values, a message is displayed to indicate if the load is expected to exceed within the next 24 hours.		21 May 2020	CSE, EEE, IT
2.	Fault prediction model with oil level, oil temperature, oil level and temperature alarms current voltage levels and other alarms with ARIMA model Power factor monitoring Analysis of THD, MD, Kw, KWh Graphs for VL1 VL2 and VL3 and line and phase currents were plotted	22 April 2020	1 May 2020	CSE, EEE, IT
3.	ARIMA model for oil temperature variations and alarms was created	31 March 2020	22 April 2020	CSE, EEE, IT
4.	Data analytics team informed that correlation was not identified for fault prediction		19 April 2020	CSE, EEE, IT



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5.	Status of data analytics part shared by	31	18 April	CSE, EEE, IT
	Ms.G.Vanitha on Power factor	March	2020	DDD, 11
	monitoring and Fault prediction	2020	(18 days)	
	analysis. Suggested with few changes			COL
6.	Alarms and trips and power factor files	31	17 April	CSE, EEE, IT
	we observed identified issues and other	March	2020	EEE, II
	observation of the data was generated	2020	(17 days)	
7.	Zoom meeting was conducted for		06 April	CSE,
	CBIT IoT group and kernel sphere		2020	EEE, IT
	AI transformer project status was			
	explained to kernel sphere			
8.	Correlation between oil temperature	17	03 April	CSE,
	and level sensor alarm readings for	March	2020	EEE, IT
	fault prediction has been reported by	2020	(17 days)	
	DA team			
9.	Fault prediction procedure was		01 April	CSE,
	explained by Ms.N.V.Gowri to		2020	EEE, IT
	Ms.Sreshta to work with			
10.	Date wise API link shared to DA team	17	31 March	CSE,
	Date wise analysis on power and	March	2020	EEE, IT
	power factor work shared to DA team	2020		
	•			
	Reference paper for fault prediction			
	has been shared by N.V.Gowri and			
	asked Ms. Vanitha and Ms. Sreshta to			
	refer the same			
11.	Transformer power factor data link	17	30 March	CSE,
	was shared by Mr.Krishna	March	2020	EEE, IT
	Students were assigned to UI work	2020		
	Angular theme for dashboard was	· - · <del>·</del>		
	shared to UI team			
12.	DA team reported with current status	13	28 March	CSE,
	and brought out models for Total	March	2020	EEE, IT
	Power Analysis (available and	2020	(2weeks)	
	consumed power), Power factor		(2 (( 0010)	
	analysis			
13	Technical issues were resolved by		27 March	CSE,
1.5	Mr.Krishna		2020	EEE, IT
	1 <b>111.1X</b> 1151111 <b>4</b>		2020	۱۱ ,دندند



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	More clarifications are provided to students working on fault prediction by			
	Ms.N.V.Gowri			
14.	Some more inputs are given to UI team		17 March	CSE,
	by Mr.Krishna and some data issues		2020	EEE, I
	were raised by DA team and conveyed			
	to Mr.Krishna on data acquisition			
15.	CSE students Ms.Shresta and Bhargav		16 March	CSE,
	were assigned with fault prediction		2020	EEE, I
	analysis			
	Appointment was requested to meet			
	expert at BHEL through			
	Dr.U.K.Choudhry director I&I			
16.	Discussions were held at IT	11	14 March	CSE,
	department regarding data analytics to	March	2020	EEE, I
	be carried out further. Ms.N.V.Gowri	2020	(3 days)	
	explained about basics of transformer			
	and ways of fault prediction of the			
	transformer using the parameters			
	available.			
	Sample analysis on voltage and current			
1.7	levels have been carried out		1035	CCE
17.	Meeting was conducted by N.V.Gowri		13 March	CSE, EEE, I
	at CSE lab with data analytics team and		2020	EEE, 1
	few strategies for analysis were			
	discussed.			
	Mr.Govardhan AP IT has been			
10	assigned with UI design part		11 1/1 1	CCE
18.	Meeting was conducted Mr.Vinod		11 March	CSE, EEE, I'
10	Magazina waish Ma Vi 1 ! 1 1 1 1		2020	·
19.	Meeting with Mr. Vinod is rescheduled		10 March	CSE, EEE, I
20	on 11 March 2020	07	2020	· ·
20.	Sample analysis on oil temperature	07	09 March	CSE, EEE, I'
	alarms and trips has been carried out by	March	2020	
	Ms.Pratima, Ms.N.V.Gowri and	2020	(2 days)	
	Ms.G.Vanitha and discussed the same			
	with Mr.Krishna.			



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21.	assigned for different works like DA and UI		07 March 2020	CSE, EEE, IT
	Meeting with Mr.vinod is postponed on 10 March 2020			
22.	Abbreviations given in the transformer data are explained by Mr.krishna		06 March 2020	CSE, EEE, IT
23.	URL of existing transformer monitoring system was released to the team for analysis	1	05 March 2020	CSE, EEE, IT
24.	Meeting was conducted at placement office by NLN reddy sir and a subgroup was formed for AI based transformer monitoring project Link of cold storage monitoring system was shared to faculty members for basic analysis Meeting with Mr. Vinod is scheduled on 7th March 2020		04 March 2020	CSE, EEE, IT
25.	WebEx meeting with Mr.Krishna, kernel sphere to get introduced to transformer monitoring projects		02 March 2020	CSE, EEE, IT
26.	Team identified to work on transformer monitoring project		26 feb 2020	CSE, EEE, IT

#### 2. Project Details:

- 1. Monitoring of important transformer parameters
- 1. Alert models for transformer condition / output monitoring
- 2. Forecast models for power and demand
- 3. Prediction of transformer faults
- 4. Generation of User Interface for the given data / devices



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Annexure-I

#### **Project schedule**

Sl													
no	Activity	1	2	3	4	5	6	7	8	9	10	11	12
1													
2													
3													
4													
5													
6													
7													
8													

#### **CBITGPSTRACKING PROJECT REPORT**

CBITGPSTRACKING Project in Collaboration with Kernel Sphere. The project was initiated under COE, as a part of the MOU with Kernel Sphere for the IOT activities. The major objectives of the project are to develop an application for tracking of the CBIT Buses and providing the solution platform by implementing GPS Tracking solution with the help of IOT and AI.

#### **Time Line of the Project:**

- 1st Meeting held on 19th April 2020
- 2<sup>nd</sup> Meeting held on 22<sup>nd</sup> April 2020
- 3<sup>rd</sup> Meeting held on 18<sup>th</sup> May 2020
- 4th Meeting held on 17th July 2020
- 5<sup>th</sup> Meeting held on 1<sup>st</sup> August 2020
- 6<sup>th</sup> Meeting held on 19<sup>th</sup> September 2020
- 7<sup>th</sup> Meeting held on 2<sup>nd</sup> October 2020

#### **Departments Involved:** CSE, ECE, IT, MCA and EEE

Tracking and Database Creation – CSE Dept.

Real time Location Dashboard & Alerts & API – IT Dept.

Mobile App & Reports – MCA Dept.

Admin Module – ECE Dept.

Login & Registration- EEE Dept.

Total **10 Faculties**, 02 industry technical persons and **24 students** involved actively in this Project, in count of CSE -07+3 EEE-03 ECE-04, IT-05, MCA-02.

#### **Meetings MoMs:**

II Meeting of GPS Tracking Project

Date:Day:Time: 22<sup>nd</sup> April, 2020, Wednesday, 05:00 PM – 06:00 PM (Through WebEx id is: 787 428 670 Hosted By Krishna Mohan Kernel sphere Technical Person)

I Meeting held on 19th April 2020

Objective of the meeting:

To discuss the Objectives and assigned tasks of the GPS Tracking Project

To discuss the Roles of each department Activities under the Project

To identify the technical Specifications and roles of the Students in each module

To start the Project Modules, about the data, technical issues and Schedules

Discussed The

Technical and Tasks distributions assigned by Kernel Sphere

For the Project students of CSE, IT, MCA, ECE and EEE selected students interacted with Kernel Sphere Persons Mr Vinod and Mr Krishna Mohan

Discussed department wise tasks, clarified student's queries and instructed to all the coordinators to work on Static data after the lock down live data can be considered for the project.

From IT Dept and ECE Dept. Two more students will be added for the project because of the modules complexity

#### Members present in the meeting:

Mr. Vinod kumar, CEO, Kernel sphere Technologies(P) Ltd

Mr.Krishna, Senior software engineer, Kernel sphere Technologies(P) Ltd

Dr.Indira, Dept of MCA

Dr Sangeeta Gupta, Dept of CSE

Ms.G. Vanitha, Dept. of CSE

Ms G.Kavitha, Dept of CSE

Ms G.Mamatha Dept of CSE

Ms.Trupthi, Dept. of IT

Mr.Rajesh Dept. of IT

Dr.N. Vasantha Gowri AP, Dept. of EEE

Mr.G.Mallikarjun Rao AP, Dept. of ECE

Selected Students from CSE IT MCA ECE and EEE

#### Deliberations made in the meeting:

Mr. Vinod kumar gave a brief Overview of the Project and Modules

Mr. Krishna Mohan discussed about the assigned the tasks of each department.

It was decided to add some static data later cbit buses and staff students modules need to be added for the tracking.

Mr. Vinod kumar and Krishna explained all the modules how to proceed for the task and clarified Queries from the Students.

Staff Dr Indira from MCA, Ms G.Kavitha and Ms G.Mamatha from CSE, Ms Trupthi from IT interacted with Mr Krishna Raised the issues in modules.

Dr. N. Vasantha Gowri, EEE interacted and suggested specifications

It was Decided that the same Watsup group need to be used for sharing the content with students and staff.

Ms G.Vanitha CSE dept informed that she will be reporting the status of the project and Coordinating with department staff and students. All the department Coordinators need to update the status of the work and issues, Ms G.Vanitha, will report to the Kernel Sphere and CBIT R&D.

Mr. Vinod informed to start the project from 23rd April 2020 in lock down start the work with static data later that can be changed to dynamic data.

III Meeting of GPS Tracking Project

Date: Day: Time: 18th May, 2020, Monday, 04:00 PM – 06:30 PM (Through BigBlue Button)

II Meeting held on 22<sup>nd</sup> April 2020

I Meeting held on 19th April 2020

Agenda:

To Review the tasks assigned for each department.

To discuss the activities and work carried out by the department.

**Demonstration of Modules** 

Discussed The:

Technical Team of Kernel Sphere Mr Vinod and Mr Krishna Mohan attended and reviewed the discussion, Department CSE, IT, MCA, ECE and EEE student teams and Staff Coordinators.

1st CSE department presented demo for the assigned modules, Students Susmitha and Rakshitha presented demo for the assigned task Tracking and Database – all the sub modules assigned under the task is completed, No remarks and no changes and appreciated CSE team work by Kernel sphere.

2<sup>nd</sup> IT department presented demo for the assigned modules, Students Ameer and PreethiVardan presented demo for the assigned task Real time Location Dashboard & Alerts & API – all the sub modules assigned under the task is completed, No remarks and no changes and appreciated IT team work by Kernel sphere.

3<sup>rd</sup> MCA department presented demo for the assigned modules, Student Arun presented demo for the assigned task Mobile App & Reports – all the sub modules assigned under the task is done, suggested few technical additional things to the modules and informed that work will need to complete the tasks within two days.

Next ECE department presented demo for the assigned modules, Student Anjali presented demo for the assigned task Admin Module – all the sub modules assigned under the task is done, suggested few technical additional things to the modules and informed that work will need to complete the tasks within two days.

Next EEE department presented demo for the assigned modules, Student Rashmith resented demo for the assigned task Login & Registration – all the sub modules assigned under the task is done, suggested few technical additional things to the modules and informed that work will need to complete the tasks within two days.

#### Members present in the meeting:

Mr. Vinod kumar, CEO, Kernel sphere Technologies(P) Ltd

Mr.Krishna, Senior software engineer, Kernel sphere Technologies(P) Ltd

Dr M.SwamyDas HoD CSE

Dr. P. Narahari Sastry, ECE Dept

Dr.Indira, Dept of MCA

Dr Sangeeta Gupta ,Dept of CSE

Ms.G.Vanitha, Dept. of CSE

Ms G.Kavitha, Dept of CSE

Ms G.Mamatha Dept of CSE

Ms.Trupthi, Dept. of IT

Mr.K. Rajeshkanna Dept. of IT

Dr.N.Vasantha Gowri AP, Dept. of EEE
Mr.G.Mallikarjun Rao AP, Dept. of ECE
160117735009(Ece)
160118862017\_mca Karthik sai kumar reddy
Ameer

anjali kancharlapally

Arun Kumar B

C.Shivajyothi

Nikhitha

Pavankalyan

Pragati

Preethivardhan

Rakshitha

Rashmith

Sisira

susmitha

#### Deliberations made in the meeting:

Mr. Vinod Kumar Reviewed the modules and other inputs to projects

Mr. Krishna Mohan discussed about the assigned the tasks of each department.

It was decided to add some additional things to the modules of MCA and ECE. In this regard Mr Krishna will send the revised Document.

Dr Naraharaasri EcE department suggested for queries alert in the module separate forum need for staff and students to raise their queries.

Mr. Vinod kumar and Krishna said that all the modules finished by all the teams within the time duration appreciated all the team members.

Mr. Vinod informed that once after lock down all the modules can deployed to real time environment after showing the demonstration to Principal and Management.

Minutes of Meeting

Date: 01-08-2020

IV Meeting of GPS Tracking Project

Date:Day:Time: 1st aug 2020, Saturday, 4.00PM-5.30PM(on Webex)

III Meeting held on 18th May 2020

II Meeting held on 22<sup>nd</sup> April 2020

I Meeting held on 19th April 2020

#### Agenda:

- 1) To monitor the progress with the on going project.
- 2) To review the implementation of changes, discussed in last meeting.
- 3) Demonstration of modules.

#### Discussed the following points:

- 1) Technical Team of Kernel Sphere Mr. Vinod and Mr. Krishna Mohan attended and reviewed the demos given by students and staff coordinators.
- 2) IT department, preetivardhan and pavan presented the demo on assigned modules . They showed the working of alerts and sending of the messages whenever alerts were raised.
- 3) They also discussed the Significance of REST API in this application and about all the modules connected to database via REST API. Around 29 APIs are used for achieving various functionalities.
- 4) This Application supports two different types of tracker devices i.e tracker-DS and tracker-AIS.
- 5) The data collected from the above devices were stored in tracker and trackerlatest tables. (this was the change imperented by the CSE team).
- 6) Multiple tenant support is given.
- 6) Discussed about bulk sms gateway integration for SMS alerts.(regarding status of bus ,like overspeeding )
- 8) Krishna sir asked to make changes regarding SMS messages and to include sos button in web app also.
- 9) Vinod Sir stressed on the development of Mobile app on high priority basis.
- 10) Rakshitha from CSE department gave demo and showed the implementation of suggested changes discussed in the last meeting.
- 11) latitude and longitude values were replaced with geo location, ETA based on distance was changed to ETA based on traffic.
- 12) Redesigning of info window on dashboard was done.
- 12) Generation of GeoFence report is done.

- 13) Vendors data base was created. Triggers were added to tracker database.
- 14) MCA team discussed about insufficient number of resources for implementation of Mobile app and reports.
- 14) Vinod sir suggested to develop the app compatible with both android and iOS.
- 15) Vinod sir also suggested to integrate AI into the application and to further work on data analytics on the data collected .

#### Members present in the meeting:

Mr. Vinodkumar, CEO, Kernel sphere Technologies(P) Ltd

Mr.Krishna, Senior software engineer, Kernel sphere Technologies(P) Ltd

Dr. P. NarahariSastry, ECE Dept

Dr.Indira, Dept of MCA

Dr. Sangeeta Gupta ,Dept of CSE

Ms.G.Vanitha, Dept. of CSE

MsG. Kavitha, Dept of CSE

Ms. Trupthi, Dept. of IT

Mr.G.Mallikarjun Rao AP, Dept. of ECE

Deepak (from Industry)

CSE,IT,MCA students.

#### Deliberations made in the meeting:

Mr. Vinod Kumar Reviewed the modules and other inputs to projects

Mr. Krishna Mohan discussed about the tasks completed and pending and the time estimate for completion of the project.

It was discussed to include some additional resources to the complete modules of MCA Dept.

#### V Meeting

Date/Day/Time: 17th July, 2020; Friday 05:00PM - 06:00 PM

Objectives:

To give the Status about the Earlier Work of Vehicle Tracking System

To distribute the work for Live Data for the further project modules.

To share the responsibilities among the faculty and students of CSE and IT Department for the completion of the project with Live Data.

Members present for the meeting:

Digintrude: Mr. Krishna Mohan

CBIT Faculty: Ms. Vanitha, Dr. Sangeeta Gupta, G.Kavitha, G.Mamatha CSE Dept

Ms Trupthi, Mr Rakesh Kanna – IT Dept

Mr Mallikarjun Rao -ECE

CBIT Students: CSE and IT,

Deliberations made:

Ms G. Vanitha CSE Dept has started the meeting and explained the earlier modules of vehicle tracking project. She mentioned the requirements of the project and further requirements of the project to work with live data.

Mr. Krishna shared the things & requirement sheet of the project to update for the live data.

CSE Students and Coordinator G.Kavitha madam interacted with Krishna sir for the technical clarifications

IT Students and Coordinator M.Trupthi madam discussed regarding the modules is decided in the meeting that only few students as per the requirement participated in the discussion.

Mr Krishna informed that regarding Mobile APP for Gps tracking needed but that can be considered after the live data modules work.

Students of CSE and IT discussed technical issues with Mr Krishna.

Minutes of Meeting

Date: 02-10-2020

VII meeting of Gps Tracking Project

Date: Day: Time: 2<sup>nd</sup> October 2020, Friday, 6.00PM- 7.30 PM (on Zoom)

VI Meeting of GPS Tracking Project

V Meeting held on 1st aug 2020

IV meeting held on 17th July 2020

III Meeting held on 18th May 2020

II Meeting held on 22<sup>nd</sup> April 2020

I Meeting held on 19th April 2020

#### Agenda:

- 1) To check the technical issues if any.
- 2) To review the implementation of assigned modules for CSE IT ECE MCA and EEE departments.
- 3) Running or Demonstration of modules. And Deicide the final demonstration

Discussed the following points:

- 1) Technical Person Mr. Krishna Mohan of Kernel Sphere attended and reviewed the demos given by students and staff coordinators.
- 2) CSE department Rakshita presented demo and showed the changes implemented in the info window of home page in the said format.
- 3) It is decided that final demo scheduled on 3<sup>rd</sup> October 2020 at 4'clock and three students are selected for Demo and department coordinators decided to present their report.

#### Members present in the meeting:

Mr.Krishna, Senior software engineer, Kernel sphere Technologies(P) Ltd

Dr.Indira, Dept of MCA

Dr. Sangeeta Gupta ,Dept of CSE

Ms.G.Vanitha, Dept. of CSE

MsG.Kavita, Dept of CSE

Ms G.Mamatha Dept of CSE

Mr R. Srikanth Dept of CSE

Ms.Trupthi, Dept. of IT

Mr Rajesh Kanna Dept of IT

Mr.G.Mallikarjun Rao, Dept. of ECE

CSE,IT, MCA students.

#### Deliberations made in the meeting:

Mr. Krishna Mohan discussed and reviewed about the tasks completed and pending reports work and the time estimate for completion of the project.

#### End Remarks:

All the major features are working fine

mobile app – demonstration completed

Scheduled the final demonstration on 3<sup>rd</sup> October 2020.

#### Minutes of Meeting

Date: 03-10-2020

Final Demo Meeting

VII meeting of Gps Tracking Project

Date: Day: Time: 3rd October 2020, Saturday 4.00PM- 6.30 PM (on Zoom)

VI Meeting of GPS Tracking Project

V Meeting held on 1st aug 2020

IV meeting held on 17th July 2020

III Meeting held on 18th May 2020

II Meeting held on 22<sup>nd</sup> April 2020

I Meeting held on 19th April 2020

#### Agenda:

1) Demonstration and application running of complete Project

Discussed the following points:

- 1) CDC Director Heads of the Departments CSE ECE EEE IT, Faculty coordinators, staff and from Kernelspehere Mr Vinod Mr. Krishna Mohan attended and reviewed the final demo given by students and staff coordinators.
- 2) Students of CSE Rakshita, IT Department Preethi Vardan presented demo and presented complete presentation.
- 3) It is decided that final demo and one Driver application need to be added to the Project

#### Members present in the meeting:

Mr. Vinod CEO Kernel sphere Technologies(P) Ltd

Mr.Krishna, Senior software engineer, Kernel sphere Technologies(P) Ltd

Dr NLN Reddy, CDC Director

Dr M. SwamyDas Joint Director

Dr Suresh Pabboji

Dr Y.Ramadevi, HOD CSE

Dr Krishna Redddy HOD ECE

Dr Srinivas Reddy HOD MCA

Dr.Indira, Dept of MCA

Dr. Sangeeta Gupta ,Dept of CSE

Ms.G. Vanitha, Dept. of CSE

MsG. Kavita, Dept of CSE

Ms G.Mamatha Dept of CSE

Mr R. Srikanth Dept of CSE

Ms. Trupthi, Dept. of IT

Mr Rajesh Kanna Dept of IT

Mr.G.Mallikarjun Rao, Dept. of ECE

Ms I Srujana, Asst Prof CSE

Ms E Swathi, Asst Prof CSE

Mr G. Vivek Asst Prof CSE

Mr Srikanth R Asst Prof CSE

CSE, IT, MCA, ECE, EEE students.

#### Deliberations made in the meeting:

Welcome Note Description By Dr NLN Reddy

Mr Vinod, Kernel Sphere addressed regarding overview Project and overview of the project and brief introduction regarding upcoming projects.

Ms G. Vanitha Project Coordinator Presented overview of the project and report

Students Rakshitha and Preeti Vardan presented all the modules and demonstrated project

Dr Krsihna Reddy inputs to mobile app and to improve the Locations with additional inputs

Dr Suresh .P discussed specific features of the projects with the students

Dr M.Swamydas given inputs to the functionality part to improve tha application

All the Coordinators appreciated the students effort and project application

Ms Vanitha Staff coordinator given end remarks and thank all the team memebers for the completion of the project

#### End Remarks:

Mr Vinod requested to implement mobile app interface for the driver Module All the major features are working fine declared by all the reviewers. It is Decided that Certificates to be issued for the staff and students for the credit of the project application Hope to see this application in real time Scenario.

#### **Meeting Links:**

Webex Hosted By

<u>krishna</u> Mom <u>KernelSpehere</u> Recorded

Review MOM Recorded

https://collab.swecha.org/playback/presentation/2.0/playback.html?meetingId=8044

d138bd137fee6ef25973ff035c9d5825ddf7-1589801524006

**Review MOM** 

Recorded

**Review MOM** 

Recorded

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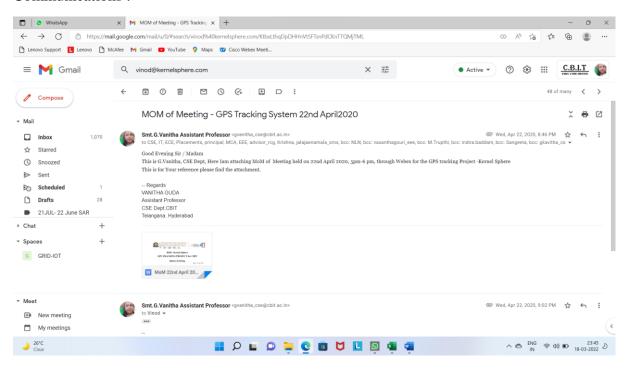
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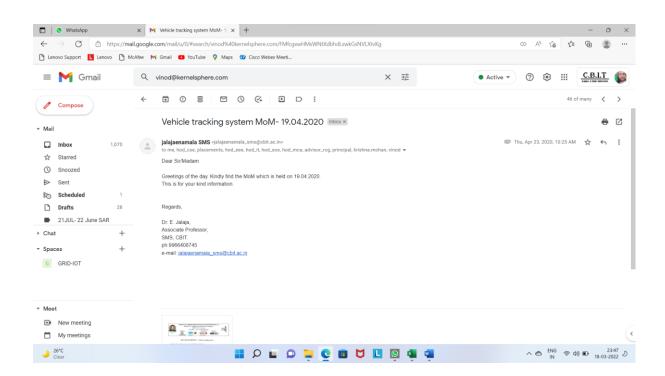
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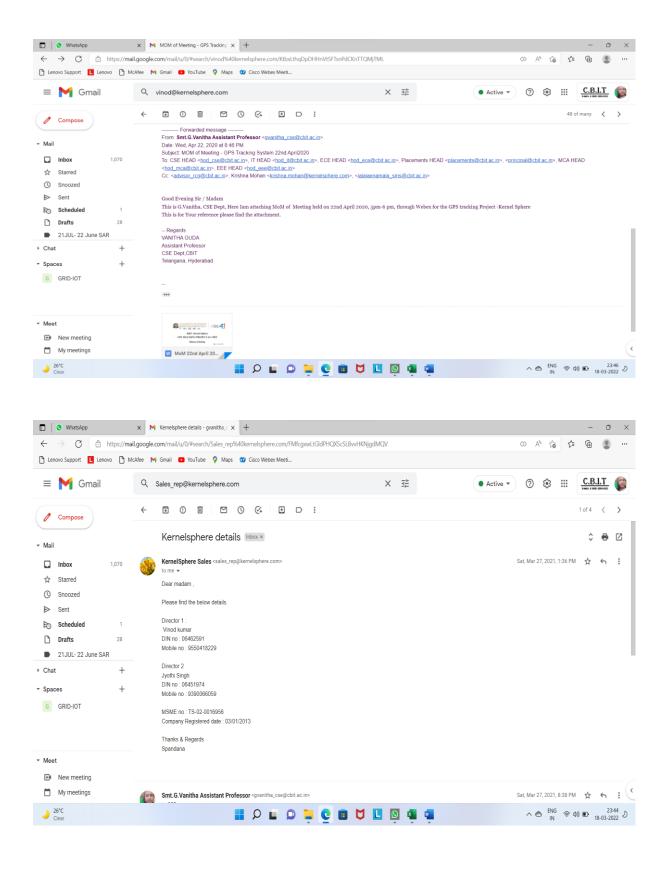
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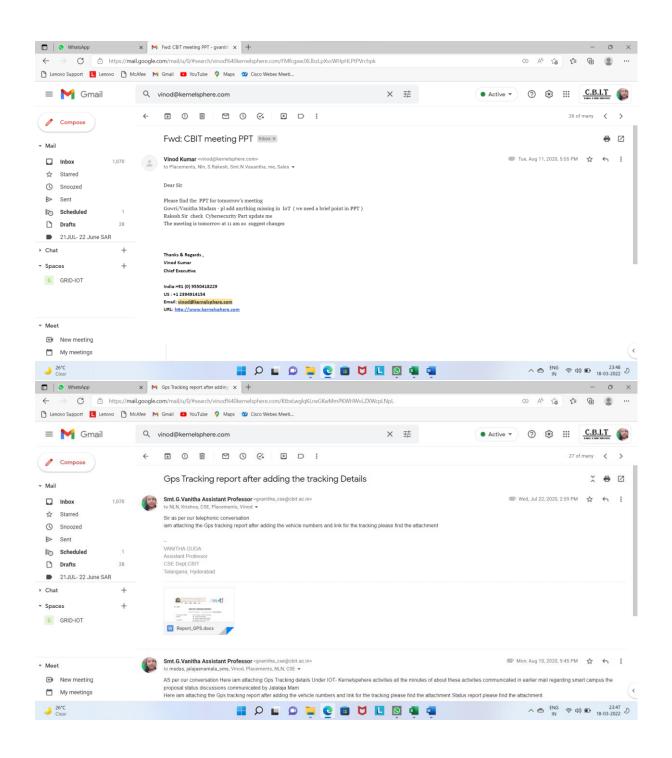
1k/view?usp=sharing

#### Communications:













## Research and Entrepreneurship Hub

## **Cyber Security Detailed Report**

Date: 11/10/2020

Sl.No	Date	Activity	Details
1	November 29, 2019	Signing of MoU	Mr. Vinod from KernelSphere Technologies along with Mr. Bhaskar Reddy-Advisor-RCG-CBIT, Dr. NLN Reddy-Director-CDC-CBIT and other officials from CBIT signed an MOU to officially launch the Cyber Security initiative. <a href="https://drive.google.com/file/d/1BJQywW7iWeiVaf3xwvlqs2iHFi">https://drive.google.com/file/d/1BJQywW7iWeiVaf3xwvlqs2iHFi</a> BDcROx/view?usp=sharing
2	December 03, 2020	Identifying Faculty members	https://drive.google.com/file/d/1X9yVjUN3- c42jwVs5_r90HFM3NHqRDdL/view?usp=sharing
3	January 20, 2020	Circular regarding Cyber Security Orientation Program	https://drive.google.com/file/d/1f0EBSH5KHwKHN0t2- 8f2Y1KwwNIhqDMl/view?usp=sharing
4	January 23, 2020	Meeting	https://drive.google.com/file/d/1ohBgiBT1BrHBe9pvz7uISUNLcdkyhaWX/view?usp=sharing
5	January 29, 2020	Preparation of Flex for publicity	https://drive.google.com/file/d/1v2RkcEPp_nZ7kWYr67wPICc6S1 5ot-EW/view?usp=sharing
6	January 31, 2020	Cyber Security Orientation Program	15 Staff members and 350 Students from CSE,IT,ECE and EEE were present.
7	January 31, 2020	Cyber Security Orientation Program Pictures	https://drive.google.com/drive/folders/1PnfXXR_LNyPBimcXEY Gy8i5UOVuu1V_w?usp=sharing
8	February 1, 2020 to February 15, 2020	Cyber Security Campaigning	To bring awareness among the students of CBIT about Cyber Security. During this campaigning period students are supposed to prepare posters on various issues pertained to Cyber Security.
9	February 15, 2020	Circular regarding 2 <sup>nd</sup> Cyber Security Orientation Program	https://drive.google.com/file/d/19r3RUghiEt3MGuMQ4sl9U3R4K _tN8JdX/view?usp=sharing
10	February 17, 2020	Cyber Security Orientation Program	250 Students from ECE, EEE, Mech, Civil and CHEM were present.

11	February 17, 2020	Cyber Security Orientation Program Pictures	https://drive.google.com/drive/folders/17e4N_37dQMxkjAY8GemwZH651fqR-zrU?usp=sharing
12	February 19, 2020	Cyber Security Poster Presentation Contest	25 Posters by IT Students, 12 Posters by CSE Students and 3 Posters by ECE Students. Total 40 Posters Presented by 100 Students from IT,CSE and ECE departments.
13	February 19, 2020	Cyber Security Posters presented by students	https://drive.google.com/drive/folders/1TxyvKKjibvVwytFkRXB mTzbkCx8nTDRD?usp=sharing
14	February 29, 2020	Meeting	https://drive.google.com/file/d/1f2rvDNmEkM- u4krdyKYqdBGvWTCgRUQZ/view?usp=sharing
15	February 29, 2020	Installation of Software	We have installed <b>Diginance</b> and <b>Digihunt</b> tools in CBIT Servers
16	March 5, 2020	MoU with DSCI	Memorandum of Understanding ("MoU") is entered between Cyber Security Centre of Excellence (CCoE) a joint initiative of (DSCI AND Government of Telangana) and Chaitanya Bharathi Institute of Technology Dated 5 <sup>th</sup> March, 2020. https://drive.google.com/file/d/1J7wOB-we1XSRFbcBbcOqni4CGZklLq3T/view?usp=sharing
17	March 2, 2020 to March 4, 2020	Collected credentials of important systems	Collected all credentials for Important Financial systems from Accounts section, Examination section(AEC), HR Department and Purchase department.
18	March 5, 2020	VA Assessment	Started Vulnerability Assessment of systems using Diginance tool
19	March 5, 2020	Vulnerability Analysis Tool (Diginance) training	29 CSE students, 18 IT students, 6 ECE students, 4 EEE students and 8 staff members from CSE, IT and ECE attended the training. Mr.Madhu Diginanace Tool expert from Digintrude Infosec Pvt. Ltd. taken the session and explained about Diginance tool. This tool is used to perform Vulnerability Assessment of individual PC's.
20	March 6, 2020	Vulnerability Analysis Tool (Diginance) training	10 CSE students, 10 IT students and 5 ECE students attended the training.
21	March 17, 2020	Completed VA for selected critical systems	Completed VA for all critical systems and generated the reports.
22	March 26, 2020	Meeting	https://drive.google.com/file/d/16- bJ2qiNLd4PJ9QulKL Y2j 62BPc1sI/view?usp=sharing
23	April 04, 2020	Meeting	https://drive.google.com/file/d/1oj0JNvECSnSG0GTPwgT5uKn1_fbeFaoj/view?usp=sharing
24	July 2020	Fixing the Vulnerabilities	Fix the Vulnerabilities present in the selected critical systems
25	5 <sup>th</sup> Aug 2020	Generated VA Report after Fixing	https://drive.google.com/file/d/149WDgUrAe2IwmdYMrjfH 1IdX UX764mK/view?usp=sharing

		the Vulnerabilities	
26	12 <sup>th</sup> Aug 2020	Vinod Presented the	https://drive.google.com/file/d/1U gj5YD E krppnRUaytn9A03E
20	12 Aug 2020	status of activities	<u>F-bFcW/view?usp=sharing</u>
27	September 02,	Meeting	https://drive.google.com/file/d/1Z2DqOuuTRVABuTBRAZueME
21	2020	Wiccing	<u>HtPDld-ISC/view?usp=sharing</u>
28	September 04,	Meeting	https://drive.google.com/file/d/1iDlkt
20	2020	Meeting	wETxIvhoNpO 581xmo0qHN-tk/view?usp=sharing
29	September 05,	VA training to staff	https://drive.google.com/file/d/1U96flVqBAg6dP8
	2020	VA training to stair	EWZzbwV8nK5OtmG1/view?usp=sharing
30	September 05,	A report on VA	https://drive.google.com/file/d/1jcYq5UjyNvg31_XiTitBtFwpaJw
30	2020	training to staff	<u>OFH9H/view?usp=sharing</u>
31	September 17,	VA training	https://drive.google.com/file/d/1U_gj5YD_E_krppnRUaytn9A03E
31	2020	material	<u>F-bFcW/view?usp=sharing</u>
32	September 21,	Cyber security new	https://drive.google.com/file/d/1S2GGVpqTYloqkE3umbSJoLHl2
32	2020	server requirement	mzDRte0/view?usp=sharing
33	September 22,	Meeting with DSCI	https://drive.google.com/file/d/19YskPmZXcKQkyk51slzgE11CK
33	2020	Team	<u>zGJJO2o/view?usp=sharing</u>
34	September 22,	DSCI Engagement	https://drive.google.com/file/d/1Y0FsRstEITeZl7w2rKgzTdHOx6Aj4DCL/
34	2020	details	view?usp=sharing
	September 26,	Meeting- Action	https://drive.google.com/file/d/1sOxCd46sPZhBaF1lIhpN7NgOR5
35	2020	plan of DSCI	WqFgFs/view?usp=sharing
		Activities	TIQI SI SI VICW : Gop—sharing
36	September 29,	Updated DSCI	https://drive.google.com/file/d/1DpytUtvn-
30	2020	Engagement details	<u>Vvdz9uwaFGG0Bxqy27JcGub/view?usp=sharing</u>

Prepared by

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