



University of Sindh
The oldest University of Pakistan

Project ID:
SU/ FET/ IT/ FYP/ 2019/ 08

FET BASED COURSES MATERIAL MANAGEMENT SYSTEM

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**DEPARTMENT OF INFORMATION TECHNOLOGY,
FACULTY OF ENGINEERING AND TECHNOLOGY,
UNIVERSITY OF SINDH, JAMSHORO**

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**ANALYSIS AND DESIGN
PROGRESS TIMELINE**



1. Introduction of Project

- ▶ **Students don't have a facility to get study material related to their course.**
- ▶ **They don't have a platform where they can go through previous Final year project details**
- ▶ **They had to go to the library and look for FYP details.**



INTRODUCTION OF PROJECT CONTINUED!

- **Also students of FET don't have a facility where they can ask question/queries related to their studies and other students can reply to their questions.**



SCOPE OF PROJECT

- ▶ **The scope of the project is to provide a platform where students can get course material of any subject, and view previous fyp projects.**
- ▶ **Till now it is only for FET students , it can further be extended to Sindh University**



3. AIM AND OBJECTIVES

- ▶ **The Aim is to provide a platform where a student can get academic resources, theses, FYP project details and discuss their study related questions/queries with other students**
- 1. **To provide academic resources**
- 2. **To provide discussion forum for students.**



4. TOOLS AND TECHNOLOGIES

► **FRONT END**

- HTML
- CSS
- JAVASCRIPT
- REACT JS

► **BACK END**

- NODE JS
- EXPRESS JS
- MONGO DB



5. METHODOLOGY

AGILE DEVELOPMENT:

- Agile project management divides large-scale projects into several phases, called sprints or iterations. This way, tasks are accomplished in short stages throughout the lifecycle of the project.

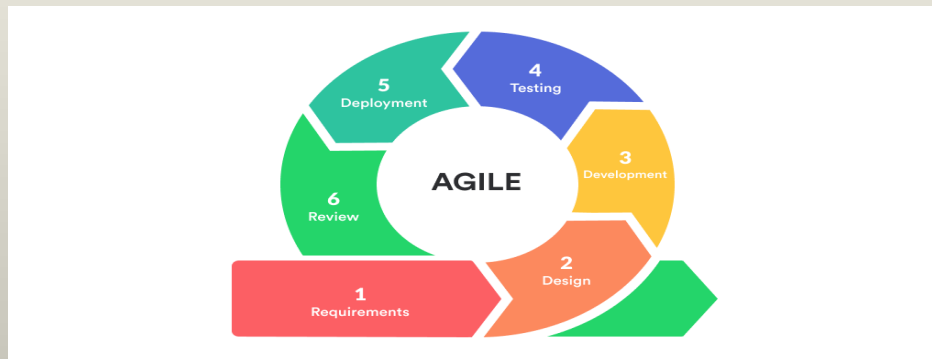
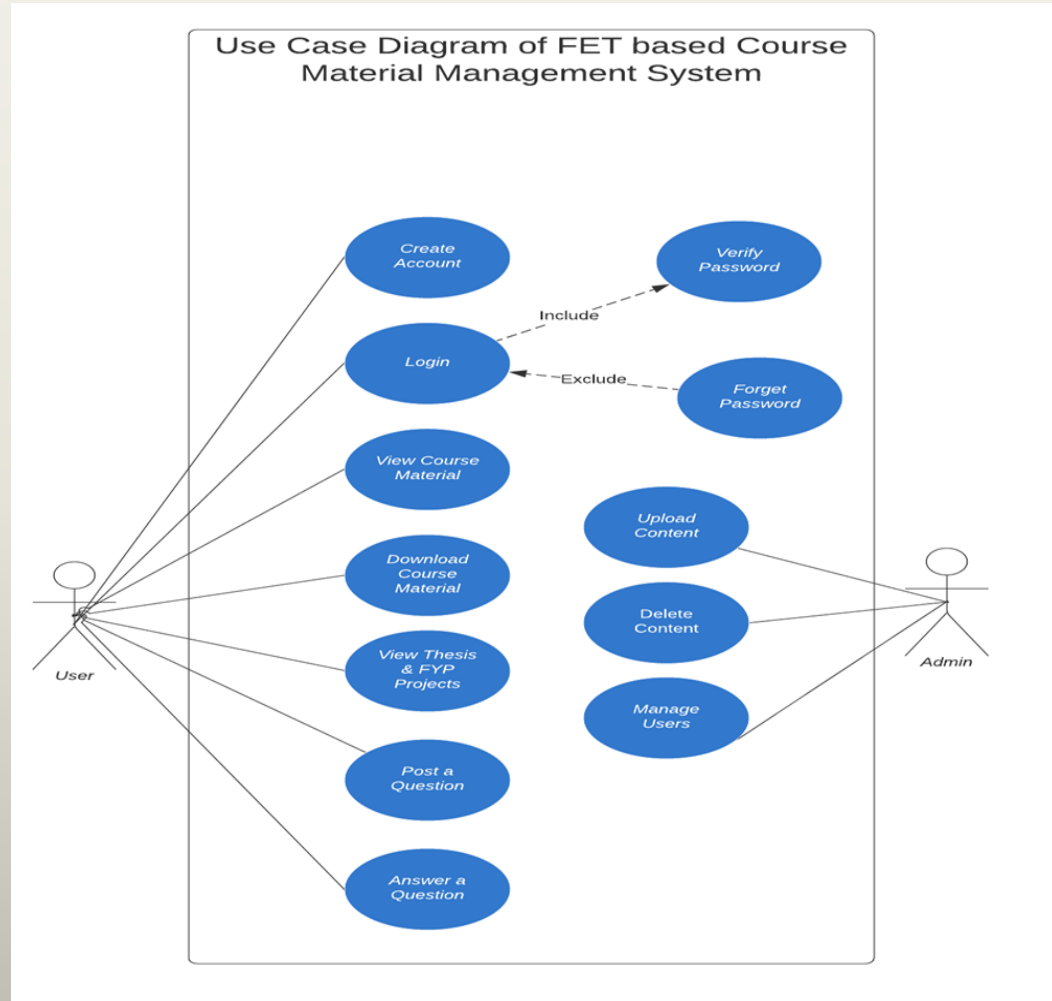


Figure : Agile Development

6. ANALYSIS AND DESIGN PROGRESS TIMELINE

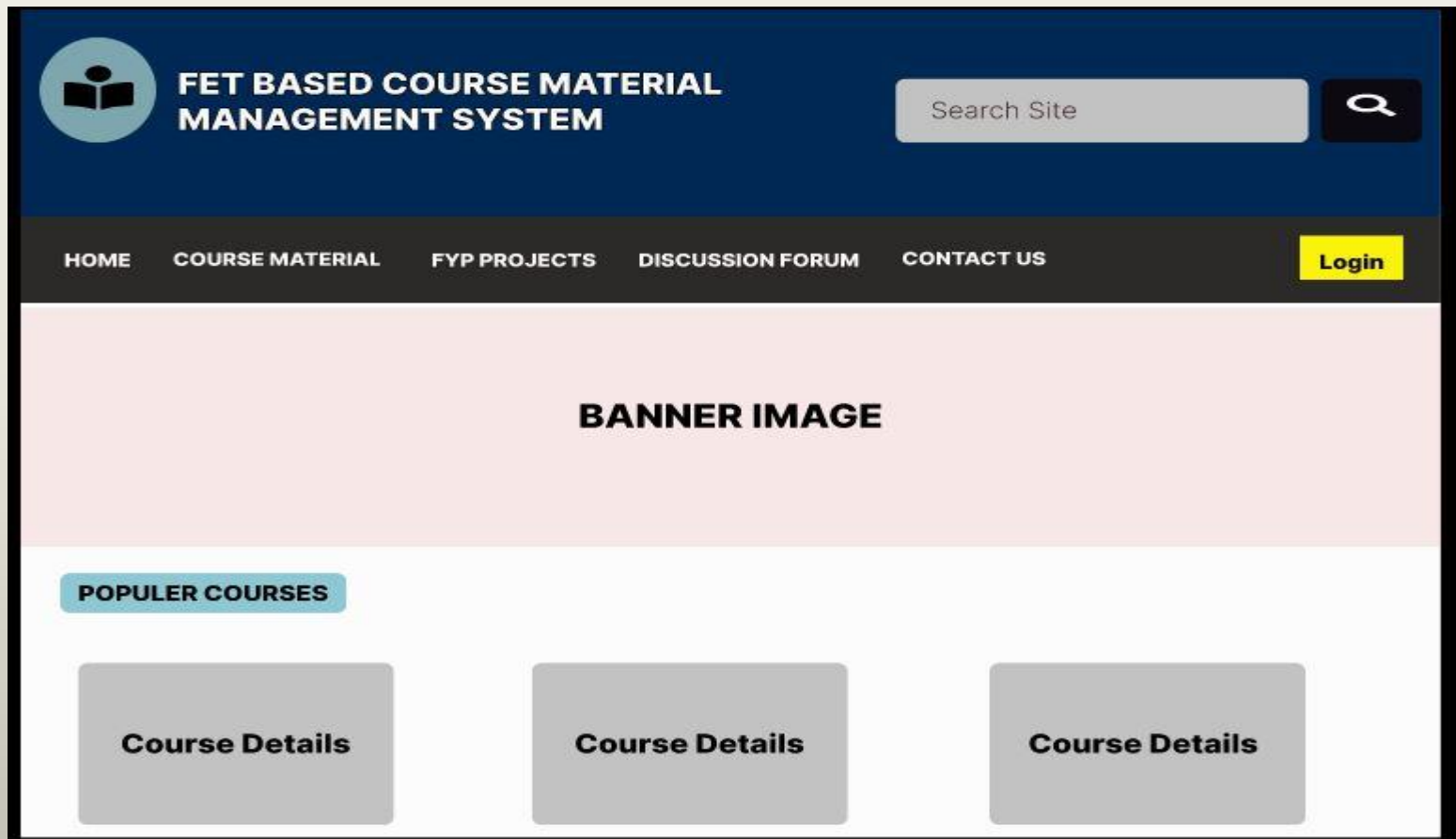
System Design

Use Case Diagram



PROTOTYPE DESIGN

○ HOME PAGE



- COURSE MATERIAL – SELECT DEPARTMENT

The screenshot displays the user interface of the 'FET BASED COURSE MATERIAL MANAGEMENT SYSTEM'. The header is dark blue, featuring a circular logo with a book icon on the left, the system name in white text, a search bar with the placeholder 'Search Site' and a magnifying glass icon, and a 'Login' button on the right. Below the header is a dark navigation bar with links for 'HOME', 'COURSE MATERIAL', 'FYP PROJECTS', 'DISCUSSION FORUM', and 'CONTACT US'. The main content area is white and contains a purple 'SELECT DEPARTMENT' button. Below this button are four light blue rectangular buttons, each representing a department: 'DEPARTMENT OF INFORMATION TECHNOLOGY', 'DEPARTMENT OF SOFTWARE ENGINEERING', 'DEPARTMENT OF TELECOMMUNICATION ENGINEERING', and 'DEPARTMENT OF ELECTRONICS ENGINEERING'. A blue circular graphic is visible in the bottom right corner of the slide.

FET BASED COURSE MATERIAL MANAGEMENT SYSTEM

Search Site

HOME COURSE MATERIAL FYP PROJECTS DISCUSSION FORUM CONTACT US Login

SELECT DEPARTMENT

DEPARTMENT OF INFORMATION TECHNOLOGY

DEPARTMENT OF SOFTWARE ENGINEERING

DEPARTMENT OF TELECOMMUNICATION ENGINEERING

DEPARTMENT OF ELECTRONICS ENGINEERING

○ COURSE MATERIAL – SELECT SUBJECT

The screenshot displays the user interface of the 'FET BASED COURSE MATERIAL MANAGEMENT SYSTEM'. The header is dark blue with a circular logo on the left containing a book icon. To the right of the logo is the system name in white. A search bar with a magnifying glass icon is positioned on the right. Below the header is a dark navigation bar with links for 'HOME', 'COURSE MATERIAL', 'FYP PROJECTS', 'DISCUSSION FORUM', and 'CONTACT US'. A yellow 'Login' button is on the far right. The main content area has a pink banner for the 'DEPARTMENT OF INFORMATION TECHNOLOGY'. Underneath, the '1st Semester' section contains four grey 'Course Details' buttons. The '2nd Semester' section also contains four grey 'Course Details' buttons. A blue circle is visible on the right edge of the slide.

FET BASED COURSE MATERIAL MANAGEMENT SYSTEM

Search Site

HOME COURSE MATERIAL FYP PROJECTS DISCUSSION FORUM CONTACT US Login

DEPARTMENT OF INFORMATION TECHNOLOGY


1st Semester


Course Details Course Details Course Details Course Details

2nd Semester

Course Details Course Details Course Details Course Details

○ CONTACT US

**FET BASED COURSE MATERIAL
MANAGEMENT SYSTEM**

Search Site 

[HOME](#) [COURSE MATERIAL](#) [FYP PROJECTS](#) [DISCUSSION FORUM](#) [CONTACT US](#) [Login](#)

CONTACT US

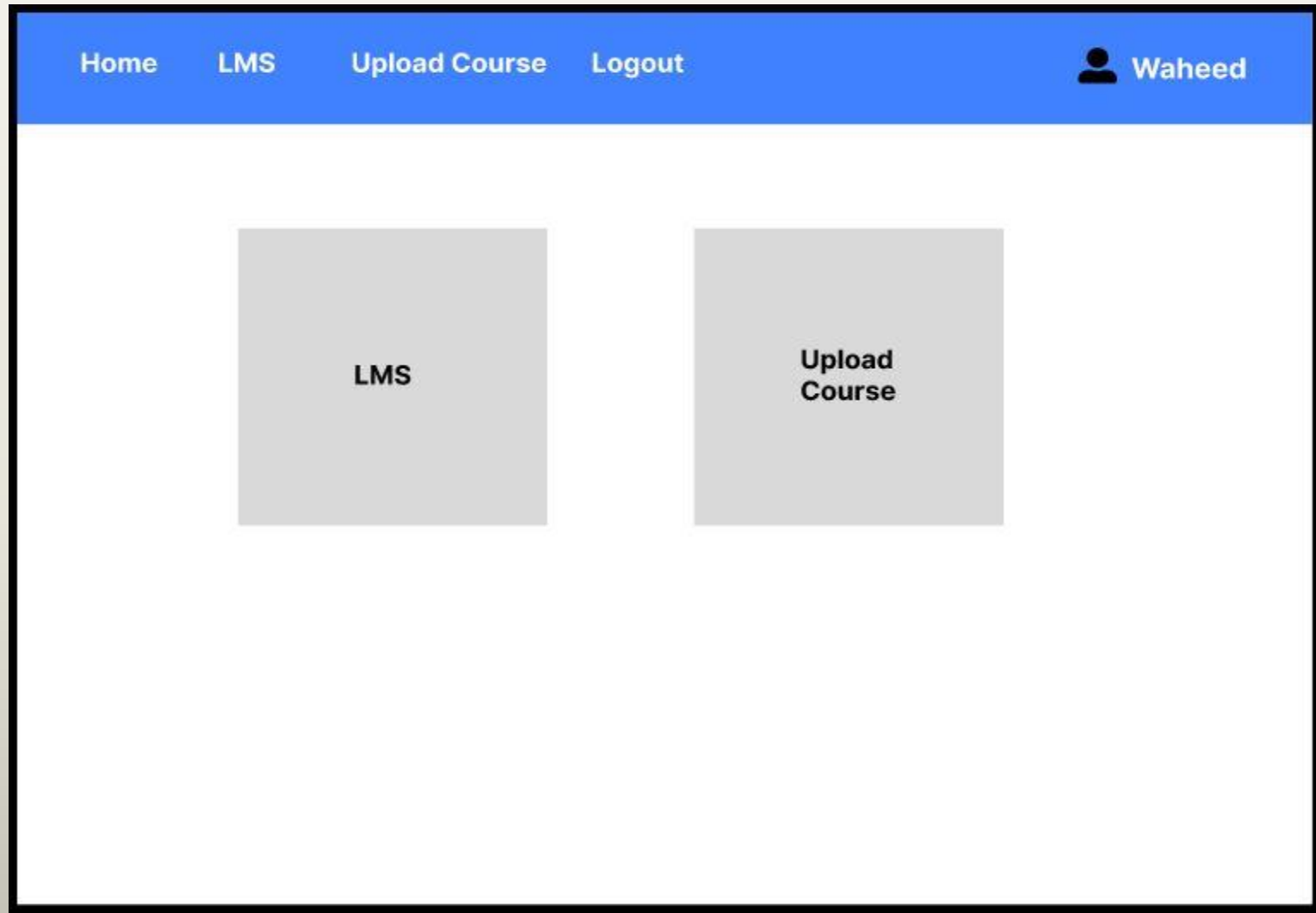
Name

Email*


Comment:


[SUBMIT](#)

○ TEACHER'S PANEL



○ TEACHER'S PANEL – UPLOAD COURSE

[Home](#) [LMS](#) [Upload Course](#) [Logout](#)  **Waheed**

Select Department 

Select Semester

Select Course

Choose File

Upload

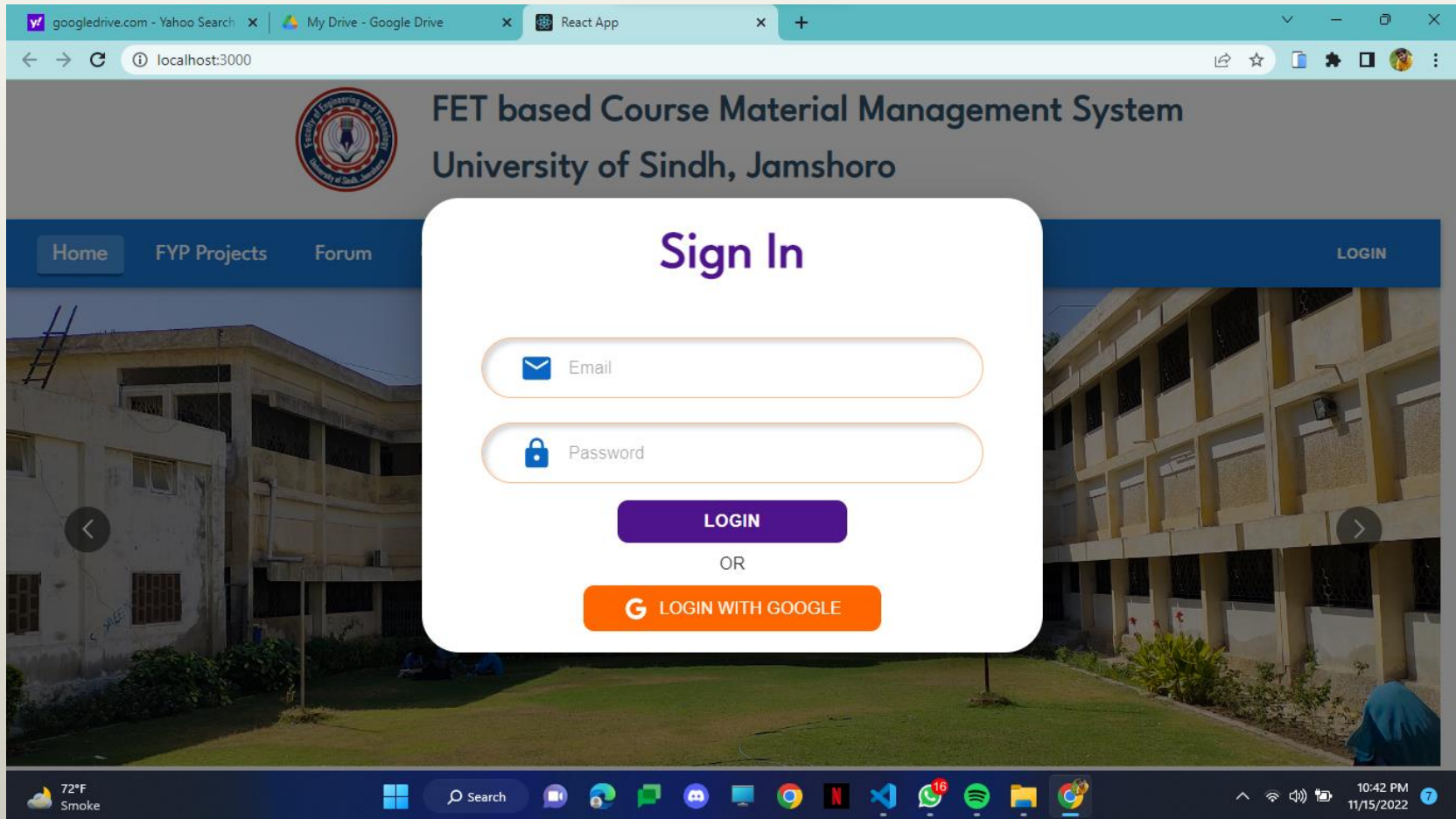
PROGRESS REPORT

FRONT-END

1. Home Page



○ 2. Login Functionality




3. PROJECT LIST

[Home](#) [FYP Projects](#) [Forum](#) [Course Material](#) [Accreditation..](#) [LOGIN](#)

Department

Title : Management of Vehicle Record through Blockchain Te
...
Batch : 2017


READ MORE



BLOCKCHAIN IN AUTOMOTIVE DOMAIN
Transparency, Interoperability, & Scalability


Title : Peer to Peer Document Verification System (DVS)
Batch : 2017

READ MORE




PEER TO PEER - P2P

Title : Emergency Response Service
Batch : 2017




Title : Home Automation System
Batch : 2017



4. PROJECT DETAIL

[Home](#) [FYP Projects](#) [Forum](#) [Course Material](#) [Accreditation..](#) [LOGIN](#)

A white SUV with emergency lights and a red cross symbol on its side is parked on a rocky, hilly terrain. Three people in red emergency uniforms are standing around the vehicle. One person is kneeling next to a piece of equipment, another is standing to the left, and a third is standing to the right. The background shows a sunset or sunrise over a valley.

Title : Emergency Response Service
Batch : 2017
Technologies : Java, XML, Firebase, Google Maps Api, Andriod Studio
Supervisor : Ms. Nazish Bashir

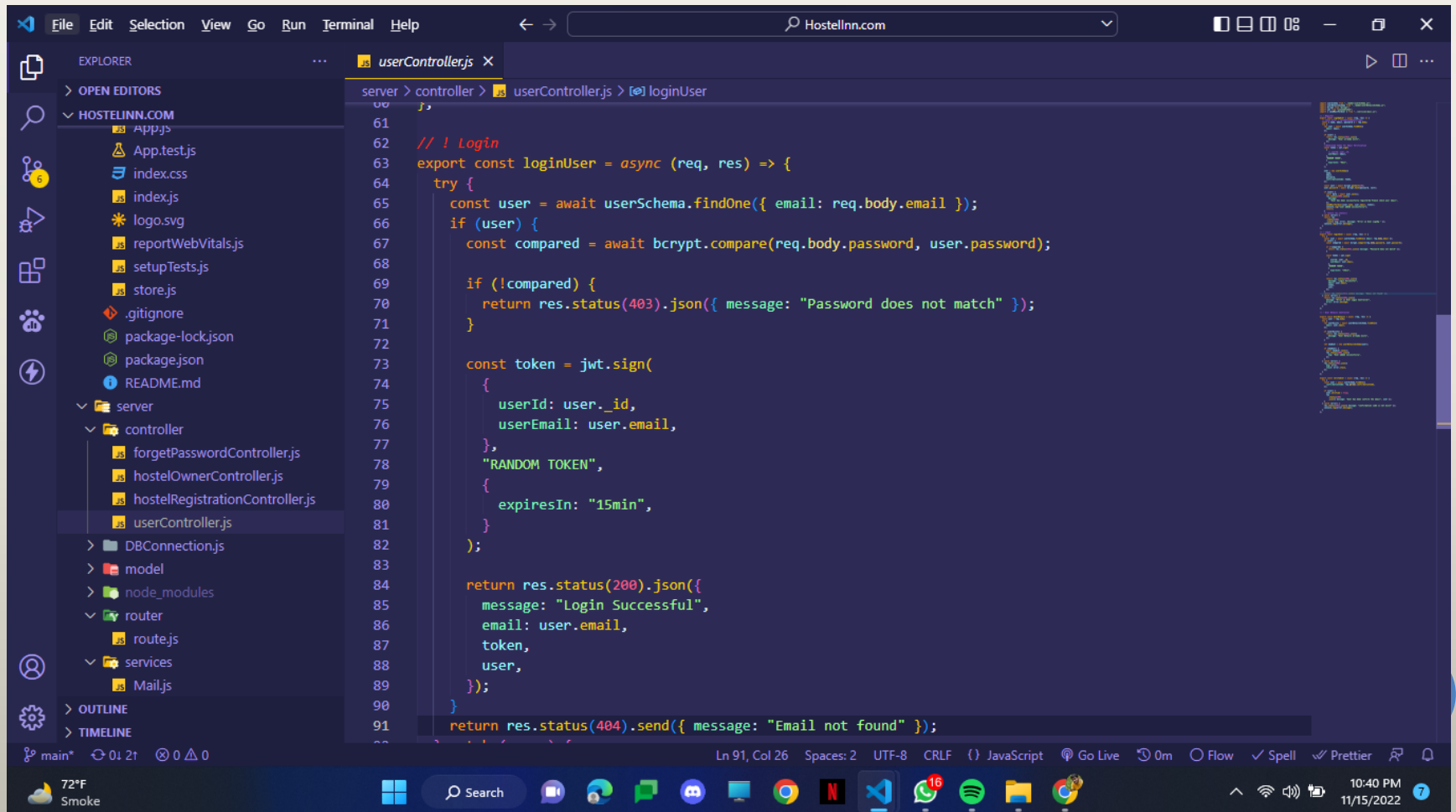
Abstract

Emergency is a critical matter which must be dealt with quickly and efficiently. Situations like health emergencies or fire incidents can cause huge life and property loss if help is delayed or doesn't reach at all. The proposed system is designed and developed to reduce these delays, by providing a reliable and efficient communications infrastructure to people and responders and by bringing them closer. The project is based on two android applications for people and responders respectively. These applications are integrated with each other to provide the functionality of sharing communication, route and locations between people and responders. It currently caters to ambulances and fire brigades which can be reached by using application's automated functions thereby reducing the chances of time waste and misinformation regarding people's locations. This system is a step in the right direction in improving



BACKEND

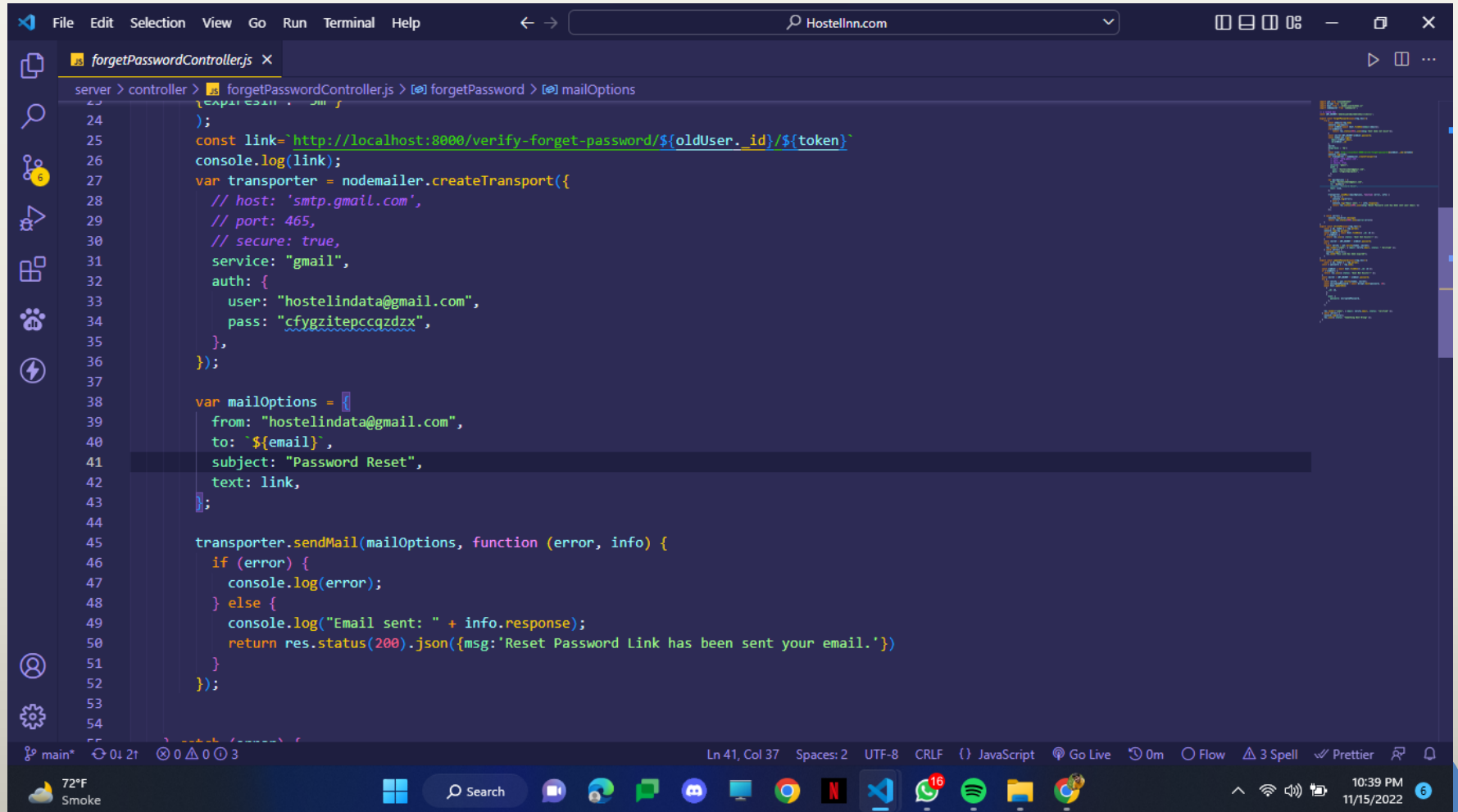
1. Login API



The screenshot shows a Visual Studio Code editor window with the file explorer on the left and the code editor in the center. The file explorer shows a project structure for 'HOSTELINN.COM' with a 'server' folder containing a 'controller' folder. The 'controller' folder contains several files, including 'userController.js', which is currently open in the editor. The code in 'userController.js' defines a 'loginUser' function that handles user login requests. The function uses 'bcrypt' to compare passwords and 'jsonwebtoken' to generate tokens. It returns a 200 status for successful login and a 404 status for email not found. The status bar at the bottom shows the current line and column (Ln 91, Col 26) and various language and tool settings.

```
server > controller > userController.js > loginUser
60
61
62 // ! Login
63 export const loginUser = async (req, res) => {
64   try {
65     const user = await userSchema.findOne({ email: req.body.email });
66     if (user) {
67       const compared = await bcrypt.compare(req.body.password, user.password);
68
69       if (!compared) {
70         return res.status(403).json({ message: "Password does not match" });
71       }
72
73       const token = jwt.sign(
74         {
75           userId: user._id,
76           userEmail: user.email,
77         },
78         "RANDOM TOKEN",
79         {
80           expiresIn: "15min",
81         }
82       );
83
84       return res.status(200).json({
85         message: "Login Successful",
86         email: user.email,
87         token,
88         user,
89       });
90     }
91     return res.status(404).send({ message: "Email not found" });
92   } catch (error) {
93     console.log(error);
94   }
95 }
```

2. FORGET PASSWORD API



The screenshot shows a VS Code editor window with a file named `forgetPasswordController.js` open. The code is written in JavaScript and implements a forgot password API endpoint. The browser address bar shows `Hostellnn.com`. The status bar at the bottom indicates the current position is `Ln 41, Col 37`, with `Spaces: 2`, `UTF-8` encoding, `CRLF` line endings, and `JavaScript` language.

```
server > controller > forgetPasswordController.js > forgetPassword > mailOptions
23  }
24  });
25  const link = `http://localhost:8000/verify-forget-password/${oldUser._id}/${token}`;
26  console.log(link);
27  var transporter = nodemailer.createTransport({
28    // host: 'smtp.gmail.com',
29    // port: 465,
30    // secure: true,
31    service: "gmail",
32    auth: {
33      user: "hostelindata@gmail.com",
34      pass: "cfygzitepccqzdzx",
35    },
36  });
37
38  var mailOptions = {
39    from: "hostelindata@gmail.com",
40    to: `${email}`,
41    subject: "Password Reset",
42    text: link,
43  };
44
45  transporter.sendMail(mailOptions, function (error, info) {
46    if (error) {
47      console.log(error);
48    } else {
49      console.log("Email sent: " + info.response);
50      return res.status(200).json({msg: 'Reset Password Link has been sent your email.'});
51    }
52  });
53
54
```

3.FILE SAVE API

```
// ...  
  
// var upload=multer({storage:storage})  
  
const storage = multer.diskStorage({  
  destination: (req, file, cb) => {  
    cb(null, "uploads");  
  },  
  filename: (req, file, cb) => {  
    cb(null, Date.now()+'_'+ file.originalname);  
  },  
});  
  
const upload = multer({ storage: storage });  
  
app.post('/',upload.single('image'),async(req,res)=>{  
  try {  
    console.log(req.file.filename);  
    const saveImage= new ImageSchema({  
      name:req.body.name,  
      img:{  
        data:fs.readFileSync('uploads/'+req.file.filename),  
        contentType:"image/png"  
      }  
    })  
    await saveImage.save();  
    return res.status(200).json({msg:'Image saved to the mongoDB'})  
  } catch (error) {  
    return res.status(500).json({error:error.message})  
  }  
})
```



DATABASE:

Anas's Org - ...

Access Manager

Billing

All Clusters

Get Help

Anas

Project 0

Atlas

App Services

Charts

DATABASES: 9 COLLECTIONS: 18

VISUALIZE YOUR DATA

REFRESH

DEPLOYMENT

Database

Data Lake

DATA SERVICES

Triggers

Data API

Data Federation

SECURITY

Quickstart

Database Access

Network Access

Advanced

+ Create Database

Q Search Namespaces

ECOMMERCE

Fyp

electronic_details

information_technol...

software_details

telecom_details

blog

google-Oauth

multer

my-blogs

user-blogs

Fyp

LOGICAL DATA SIZE: 89.42KB STORAGE SIZE: 240KB INDEX SIZE: 144KB TOTAL COLLECTIONS: 4

CREATE COLLECTION

Collection Name	Documents	Logical Data Size	Avg Document Size	Storage Size	Indexes	Index Size	Avg Index Size
electronic_details	5	13.21KB	2.64KB	48KB	1	36KB	36KB
information_technologies	10	14.64KB	1.46KB	48KB	1	36KB	36KB
software_details	30	52.52KB	1.75KB	100KB	1	36KB	36KB
telecom_details	5	9.05KB	1.81KB	44KB	1	36KB	36KB

ECOMMERCE

Fyp

electronic_details

information techno...

software_details

telecom_details

blog

google-Oauth

multer

my-blogs

user-blogs

Find

Indexes

Schema Anti-Patterns 0

Aggregation

Search Indexes

INSERT DOCUMENT

FILTER

{ field: 'value' }

OPTIONS

Apply

Reset

QUERY RESULTS: 1-10 OF 10

_id: ObjectId('636b582daa1aa0a2957aed63')

title: "Management of Vehicle Record through Blockchain Technology"

batch: "2017"

department: "Information Technology"

abstract: "Vehicle Registration is mandatory under the Law and is essential to pr..."

technologies: "HTML, CSS, Javascript, JSON, PHP, Node JS, Python, CURL, Docker"

supervisor: "Dr. Muhammad Ali Memon"

url: "https://1.bp.blogspot.com/-PHSJ68mXcbk/Wqe1Bz2DN-I/AAAAAAAAAS50/T7gwMGI..."

__v: 0

createdAt: 2022-11-09T07:35:09.519+00:00

updatedAt: 2022-11-09T07:35:09.519+00:00

System Status: All Good

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