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A Project Report

On

PLAGIARISM CHECKER

Submitted for the partial fulfillmentof the requirement

for the award of the Degree of

B.Tech

In

Computer Science and Engineering

by

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Under the Guidance of

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Asst. Professor, DIT Univeristy, Dehradun

DIT UNIVERSITY, DEHRADUN, INDIA

April,2020

DECLARATION

This is to entitle that the Project named **"Plagiarism Checker"** in partial fulfillment for the requirement of the award of the **Degree of Bachelor of Technology** in **Computer Science and Engineering**, submitted to **DIT University, Dehradun, Uttarakhand, India,** is an original record of genuine work carried out by our team, under the guidance of Mr. Kushal Gupta (Asst. Prof. ,DITU).

The information present in this Project has not been submitted for the award of any degree to any University.

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Supervisor Name , Designation & Signature:

Dr. Vishal Bharti
Head of Department
Signature

Date:24 April,2020

Place: Dehradun

ACKNOWLEDGMENT

We are grateful for the golden opportunity that we got in DIT University which helped us to improve and learn things for the betterment of our future. Hence , we find ourselves extremely fortunate to be given a chance of being a part of such an event. We are obliged that during this phase we met such helping Faculty along with amazing individuals who helped us throughout the phase whenever required.

We are immensely thankful to our faculty Mr.Kushal Gupta , our module lead who helped us a lot by providing his valuable ideas along with his precious advices. His presence made everything simpler and easy for us .

We look at this opportunity as a integral advancement in our professional experience. We will make sure that we utilize the most of our experience and learnings for our future betterment and we will keep on trying to upgrade ourselves in the coming time so as to achieve the specific goal .

Abstract

For detecting the plagiarism of any kind, it is important to know about its all possible forms and cases, and about the existence of different variety of tools and systems which are used for its detection. According to the impact and severity of harm, plagiarism may exist in an article or in any major production of project in a number of ways. These surveys present taxonomy of multiple plagiarism forms and involve discussion these different plagiarism forms. Over recent years, many tools and techniques have come into existence to detect all forms of plagiarism.

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ABBREVIATIONS

API stands for Application Program Interface

HTTP stands for HyperText Trasfer Protocol

HTML is for HyperText Markup Language

CSS stands for Cascading Style Sheet

SQL stands for Structured Query Language

INTRODUCTION

In these modern times , the digital resources in the World Wide Web have been increasing gradually . This growth has also resulted in the growing chances of duplicacy and violation of copyrights . Researchers and programmers have been working continuously to check this problem of duplicacy which is known as Plagiarism.

Plagiarism is referred to as copying of someone else' lines , data , idea , vison and presenting it as one's own . Basically plagiarism is copying someone's ideas , work and words and then presenting all these without the acknowledgement of the actual source of these ideas , works and words . There are mainly 2 kinds of plagiarism which are mostly found in real world , viz " plagiarism in text " and " plagiarism in source code " . A number of programmers and software teams have been consistently trying to provide the generation with an efficient way of detecting plagiarism.

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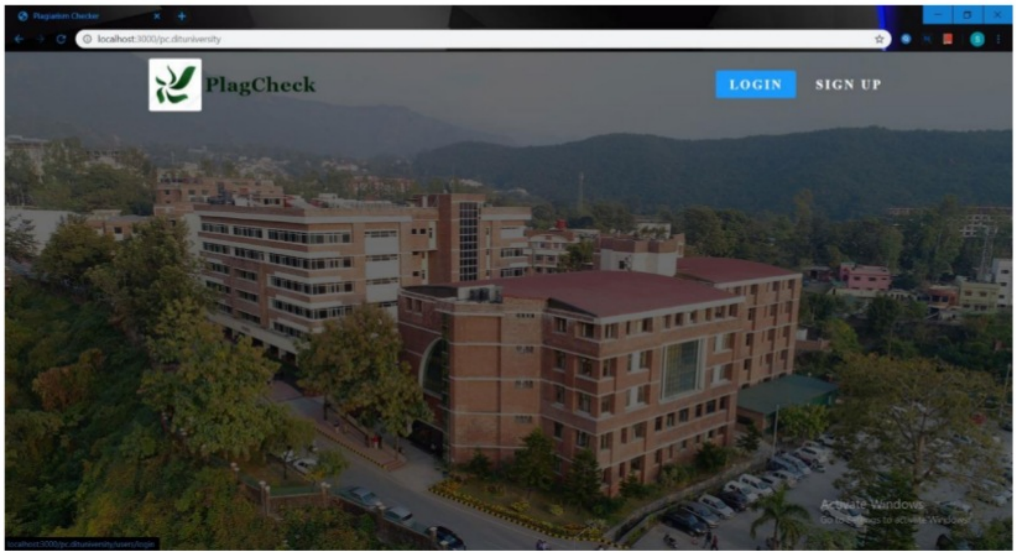
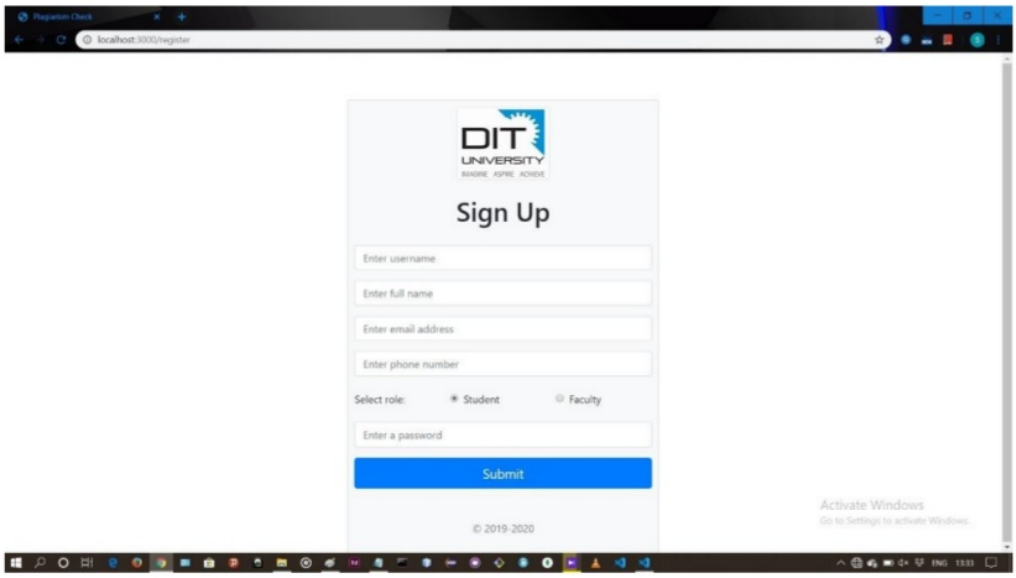
Progress

Till now we have worked on the front end part of our project. We have developed a landing page i.e,when we go to site the landing page will be shown which will contain the 3 options- about, sign up, sign in. Our landing page is shown in the below picture. If we already have an account on this site we can directly log in to our account and find the option to upload our assignment which can be checked for plagiarism else we need to create our account using the sign up option available at right corner of the page. While signing up for new account it will ask your role as in student signup or the faculty sign up, we need to choose any one according to our role. Once we are successfully logged in we are taken to the page where we can upload our file for plagiarism detection.

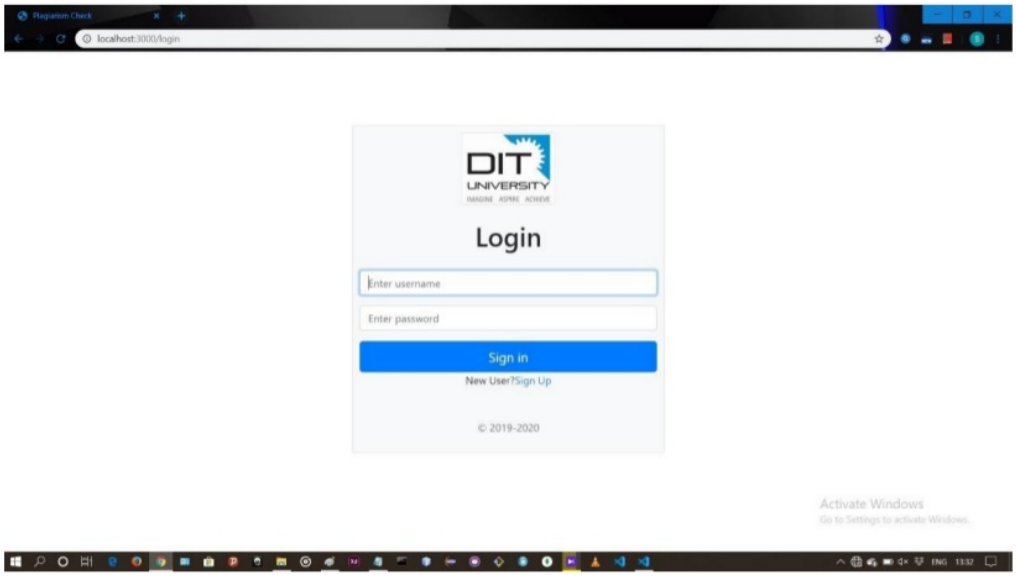
Gallery



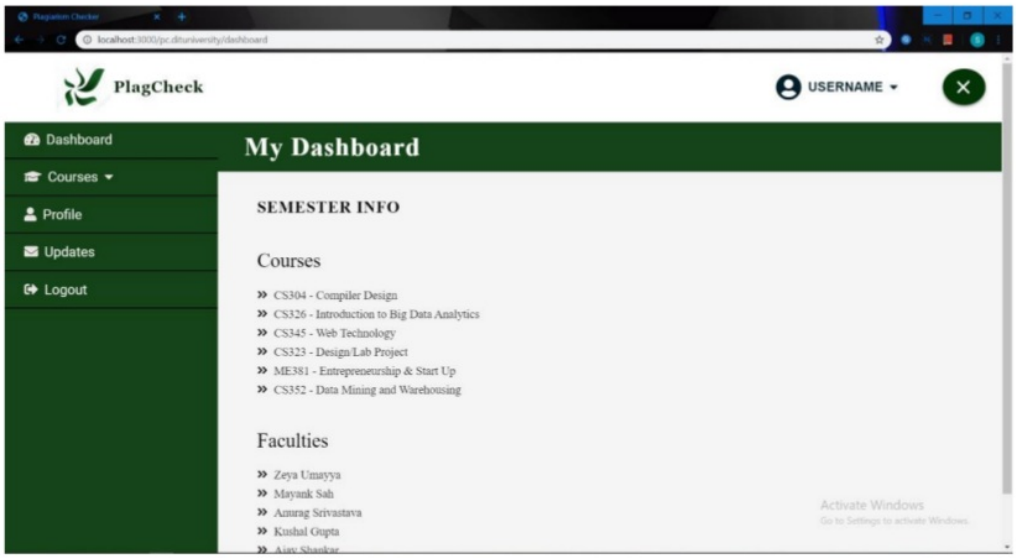
3.1 Home Page



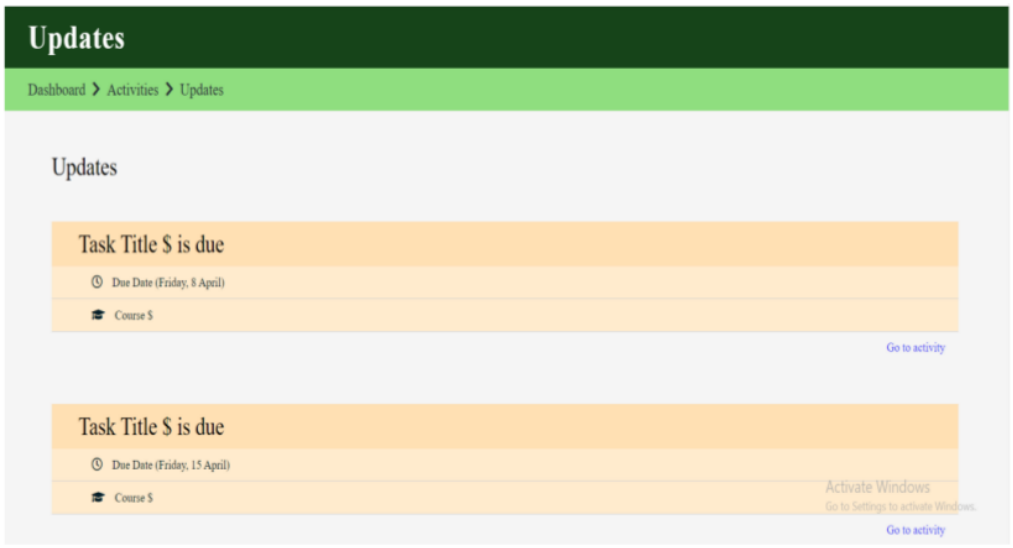
3.2 Sign Up Page



3.3 Login Page

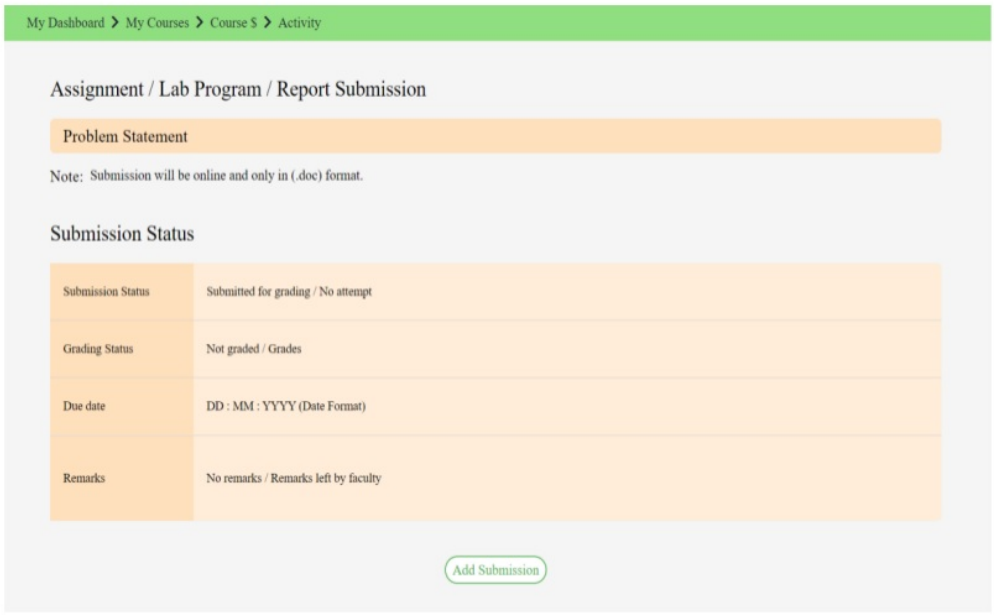


3.4 Dashboard Page

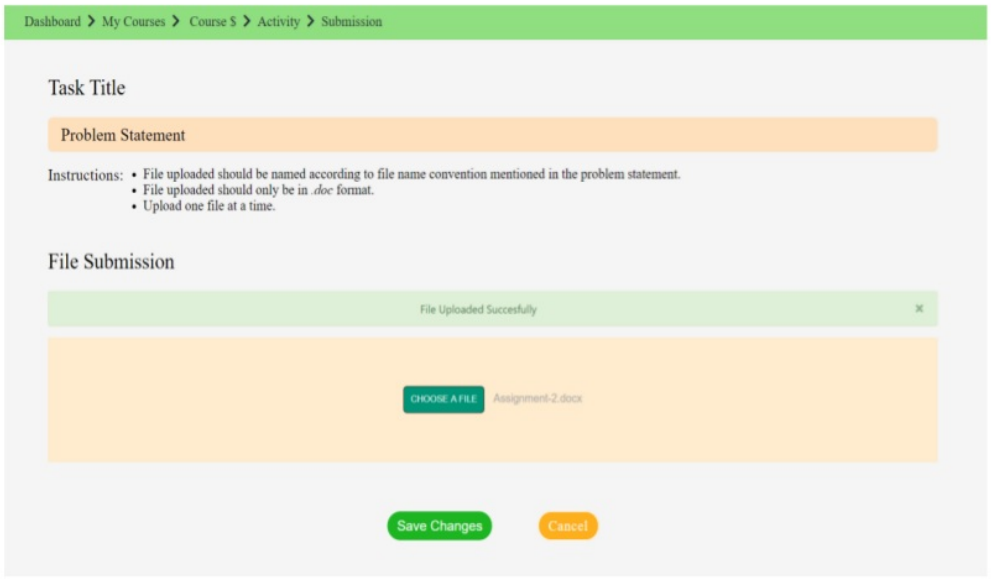


3.5 Updates page

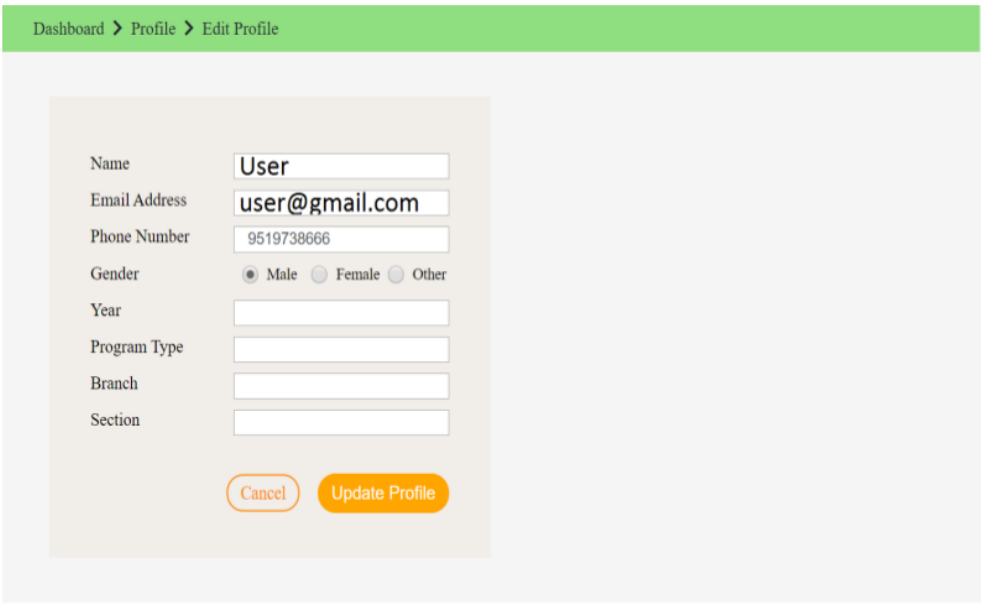
3.6 Courses Page



3.7 Activity Page



3.8 Submission Page



3.9 Profile Page

Technologies Used

Express (Server Side):

Express is a web application system for Node.js that permits us to turn up hearty API and web server in an a lot simpler and cleaner ways. Express is a lightweight bundle that doesn't dark any of the center Node.js highlights.

TJ Holowaychuk the creator of express has depicted the express as a Sinatra-roused server meaning.It is moderately negligible with numerous highlights accessible it as plugins.The back-end part of the (mean) stac.It cooperates with MongoDB programming and AngularJS front-end structure.

MongoDB (Database):

- MongoDB is a report arranged database made by 10gen and was at first discharged in 2009
- Mongo isn't care for MySQL
- Open source
- MongoDB is written in C++
- No mapping, so no sections or columns
- No SQL
- Stores organized information
- Stored as assortments
- It is very nearly 2 to multiple times quicker than MySQL
- Its multiple times quicker than couchdb
- Documents are put away in BSON (double JSON)
- Mongo's inquiry language is fundamentally JSON (Java Script Object Notation)
- Like GROUP BY in SQL, map/diminish is the correct apparatus in MongoDB

Bootstrap:

Bootstrap is open source toolbox to create with the help of HTML, CSS, & JS.We construct whole application or model thought fundamentally with saas factors and mixins, responsive lattice framework, broad prebuilt segments, and ground-breaking module based on jQuery.

Npm libraries/dependencies used:

1) body-parser
2) express
3) express-fileupload
4) express-session
5) mongoose
6) passport
7) passport-local passport-local-mongoose

HTML:

HTML is one type of language which is used to build web pages.HTML is a great invention by developers to give a boost to online platfrom. We can design various websites for various purposes using this technology. To make it more attractive and to make more comfortable look and feel we use CSS over HTML. In this project also we have used HTML and CSS to present our site.

HTMl file is saved with extension .html. It is run on any browser which supports HTML. Browsers are the platform for supporting HTML which understands HTML and responds to it.

HTML involves various type of tags for our ease to make look things differently.Ex-Heading Tags,Pagagraph Tag and there are various tags to build a table also such as <td>,<tr>,etc. We can draw borders of different thickness using HTML.Another important this is Forms. HTML helps us to build forms which is very much useful nowdays for registration of almost every event.

JavaScript:

JavaScript may be a light-weight, understood, object-oriented language with superior functions. it's best referred to as the scripting language for websites, however it's employed in several non-browser environments conjointly. it's a prototype-based, multi-paradigm scripting language that's dynamic, and supports object-oriented, imperative, and purposeful programming vogue.

JavaScript runs on the shopper aspect of the net, which might be accustomed style / program however the net pages behave on the prevalence of an occasion. JavaScript is a simple to be told and conjointly powerful scripting language, wide used for dominant web content behavior.Contrary to common idea, JavaScript isn't "Interpreted Java". during a shell, JavaScript may be a dynamic scripting language supporting epitome primarily based object construction. the fundamental syntax is by design like each Java and C++ to cut back the quantity of latest ideas needed to be told the language.

It functions as each a procedural associate degreed an object destined language. Objects ar created programmatically in JavaScript, by attaching strategies and properties to otherwise empty objects at run time, as opposition the grammar category definitions common in compiled languages like C++ and Java. Once associate degree object is made it is used as a blueprint for making similar objects.

CSS:

CSS is very useful in the web technology. Presentation is very important in every field so in web also. We need to apply various looks and feel to our HTML code. Css helps us to make look of our page more attractive. It is a simple designing language used to design the web pages. Using CSS we can change colour of textboxes, we can include various bars and segments on the page.

This language is easy syntax and various properties which can be implemented easily. Oftenly, it is combined with the markup language HTML.

Advantages of CSS

- It saves time
- Fast Loading of page
- CSS has Easy handling
- Superior styles to HTML
- Compatibility to several devices

CODE

User Model:

```
var mongoose = require("mongoose"),

   passportLocalMongoose = require("passport-local-mongoose");

//SCHEMA SETUP

var userSchema = new mongoose.Schema({

  username: String,

  name: String,

  email: String,

  phone: String,

  role: String,

  password: String

});

userSchema.plugin(passportLocalMongoose);

module.exports = mongoose.model("User", userSchema);
```

Server File:

```
var express = require("express"),

  app = express(),

  bodyParser = require("body-parser"),

  mongoose = require("mongoose"),
```

```
    passport = require("passport"),
    LocalStrategy = require("passport-local"),
    passportLocalMongoose = require("passport-local-mongoose"),
    upload = require('express-fileupload'),
    User = require("./models/user"),
    port = 3000;
//Application Configuration
mongoose.connect("mongodb://localhost/DITUniversity");
app.set("view engine", "ejs");
app.use(bodyParser.urlencoded({ extended: true }));
app.use(express.static(__dirname + "/public"));
app.use(require("express-session")({
    secret: "Plagiarism Checker is running.",
    resave: false,
    saveUninitialized: false
}));
app.use(passport.initialize());
app.use(passport.session());
passport.use(new LocalStrategy(User.authenticate()));
passport.serializeUser(User.serializeUser());
```

```
passport.deserializeUser(User.deserializeUser());

app.use(upload());


// app.use(function(request, response, next) {
//     response.locals.currentUser = request.user;
// });
//----ROUTES----
app.get("/", function(request, response) {
   response.render("landing");
});
app.get("/home", isLoggedIn, function(request, response) {
    response.render("files/home",{ error: "", filename: "", message: "" });
});
//Authentication Routes
app.get("/register", function(request, response) {
   response.render("files/register");
});
// app.post("/register", function(request, response) {
//     User.register(new User(request.body.user), request.body.password, function(error,
user) {
//         if (error) {
```

```
//        console.log(error);
//        //alert("Something went wrong. Please try again!");
//        response.redirect("/register");
//    }
//    passport.authenticate("local")(request, response, function() {
//        response.redirect("/home");
//    });
//  });
// });


app.post("/register", function(request, response, next) {
  User.register(new User(request.body.user), request.body.password, function(error,
user) {
  if (error) {
    console.log(error);
    //alert("Something went wrong. Please try again!");
    response.redirect("/register");
  }
  next();
 });
}, passport.authenticate("local", {
```

```
  successRedirect: "/home",
  failureRedirect: "/home"
}));

app.get("/login", function(request, response) {
  response.render("files/login");
});

app.post("/login", passport.authenticate("local", {
  successRedirect: "/home",
  failureRedirect: "/login"
}), function(request, response) {});

app.get("/logout", function(request, response) {
  request.logout();
  response.redirect("/");
});

app.post("/upload", function(request, response) {
  if (request.files) {
```

```
    var file = request.files.upfile,
    name = file.name,
    type = file.mimetype;
    var uploadpath = __dirname + '/uploads/' + name;
    file.mv(uploadpath, function(err) {
    if (err) {
    console.log("File Upload Failed", name, err);
                response.render("files/home", { error: "true", filename: "", message:
"Something went wrong. Please try again!" });
    } else {
                response.render("files/home", { error: false, filename: name, message: "
uploaded Successfully!" });
    }
    });
  } else {
    response.redirect("files/home", { error: "true", filename: "", message: "No file
selected!" });
  }
});
function isLoggedIn(request, response, next) {
  if (request.isAuthenticated()) {
```

```
    return next();
  }
  response.redirect("/login");
}
app.listen(port, function() {
  console.log("Server is running on port " + port);
  console.log("Press CTRL + C to stop the server.");
});
```

Future Scope

After starting the server, landing page is loaded from where only 2 requests can be made. One to the login page, second to the sign-up page for new user,.We see 2 more requests in future about page showing information about DIT University and last to the about page showing info about the project.During registration of a new user, user is asked about his details and it is also marked whether the user is faculty or a student. Then, the user logs in by his username and password.

After login, homepage appears based on the role of user, different page for faculty and different for students.Where students are only allowed to see and edit their profiles and upload the assignment, report files to their respective faculty while faculties have have the authority to see all the files uploaded by the students and operate on those files.Operations like checking files for plagiarism and generating results, remarks for each submission, grading each student. Later students can check these grades or remarks made by the faculties on their submission.

Similarity Percentage Calculation

Similarity percentage is the comparation degree of percentage similarity between two tested documents. This similarity will give a result of a score which will be a reference for determining percentage similarity degree on a these documents. The number of similarity percentage is affected by the similarity degree from these documents. If similarity percentage is higher, then similarity degree will be higher . Equation for calculating similarity percentage by dividing number of similar sentences detected with total sentences in document. There are three ways for determining similarity between documents:

- Testing results lower than 30% means these document considered have little plagiarism.
- Testing results between 30-70% means these document considered have moderate plagiarism.
- Testing results more than 70% means these document considered have heavy plagiarism.

References

• https://www.plagiarism.org/article/what-is-plagiarism

• https://nevonprojects.com/online-assignment-plagiarism-checker-project-using-data-mining/

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