****

**UNDERGRADUATE PROGRAMME**

**FINAL YEAR PROJECT**

**STUDENT’S LOG BOOK**

**STUDENT INFORMATION**

Recent Photo

|  |  |  |
| --- | --- | --- |
| **Name** | **:** | **Muhammad Muneeb** |
| **CNIC No** | **:** | **42101-1373300-7** |
| **Registration No** | **:** | **46009** |
| **Session** | **:** | **Fall 2020** |
| **Programme** | **:** | **BS (CS)** |
| **Current Address** | **:** | **R – 1258 Block 14 F.B Area, Karachi** |
|  |  |  |
|  |  |  |
| **Telephone** | **:** |  |
| **Email** | **:** | **Sajjadmuneb686@gmail.com** |
|  |  |  |
| **Supervisor's Name** | **:** | **Dr. Ghulam Muhammad Shaikh** |
| **Project Name** | **:** | **Automated Classification of Files based on SAAS Cloud.** |
| **Room No** | **:** |  |
| **Telephone** | **:** | **03364061516** |
| **Email** | **:** | **Gulhammuhauhammad.bukc@bahria.edu.pk** |

|  |  |
| --- | --- |
| **WEEK 17** | |
|  | |
| Activity/Data/Literature Reviews/Figure/Sample Analysis (Achievement based on Gantt chart)  After mid evaluation we started working on the second half of our project which is files classification based on file names and folders names.  For that we need an algorithm through which categorization would be possible.  Read some research papers regarding categorization purpose (such as; Optimization of text document categorization using k-NN and Naïve Bayes techniques).  Learn some techniques to easily implement algorithm without errors. | |
| Result of discussion with supervisor | Proposed tasks for the next meeting |
| Optimizing Categorization Algorithm for new functionality. | Supervisor suggest to check and make necessary amendments in database. |

Supervisor Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: Feb 10th, 2020

|  |  |
| --- | --- |
| **Week 18** | |
|  | |
| Summary of progress made since last review meeting  For second type of categorization of files optimize categorization algorithm. | |
| Activity/Data/Literature Reviews/Figure/Sample Analysis (Achievement based on Gantt chart)  The database control file (db. control) contains information necessary to control concurrent access to the database.  Some constraints are added, removed or changed by copying a new data model file.  That’s how refining some database models. | |
| Result of discussion with supervisor | Proposed tasks for the next meeting |
| Redefining Database Models. | Supervisor suggest to do some work on the project’s interface. |

Supervisor Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: Feb 17th, 2020

|  |  |
| --- | --- |
| **Week 19** | |
|  | |
| Summary of progress made since last review meeting  Make necessary changes in database models by redefining them. | |
| Activity/Data/Literature Reviews/Figure/Sample Analysis (Achievement based on Gantt chart)  As application is used by two types of users i.e. Employees and Organization, in which every employee works under an organization and every organization is registered.  As there are number of users to use the application, so we design separate interfaces for both of the category of users.  Designing some common pages which is shown to each and every user but have their separate login pages for them. | |
| Result of discussion with supervisor | Proposed tasks for the next meeting |
| Designing User Interface for the New features. | Design some new forms for the employee and organization. |

Supervisor Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: Feb 24th, 2020

|  |  |
| --- | --- |
| **Week 20** | |
|  | |
| Summary of progress made since last review meeting  Designing user interfaces such as Home Page and Login Form Page of application. | |
| Activity/Data/Literature Reviews/Figure/Sample Analysis (Achievement based on Gantt chart)  As there are some employees who used applications but they must be registered under one organization as well as every organization should also be registered themselves for the usage of application, and for that purpose application should have registration form.  Designing User Interface of registration form and adding necessary fields of information such as; Username, Organization Name etc. for Employees and Organization name, Email etc. for Organization. | |
| Result of discussion with supervisor | Proposed tasks for the next meeting |
| Adding new registration forms for employee and organization. | Now add Dashboard to the application. |

Supervisor Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: Mar 2nd, 2020

|  |  |
| --- | --- |
| **Week 21** | |
|  | |
| Summary of progress made since last review meeting  For the registration of organization and employees, designed registration form UI for the application. | |
| Activity/Data/Literature Reviews/Figure/Sample Analysis (Achievement based on Gantt chart)  As all employees work under the organizations in which they are registered, so organization should have a check-list of how many employees work under their organization or how many new employees request them or wants to work under them.  Designing the user interface of the Dashboard for the organization which have serval options such as; Employee Request, Employee List etc. | |
| Result of discussion with supervisor | Proposed tasks for the next meeting |
| Adding new Dashboard for organization. | After designing user interfaces now create routes for new features. |

Supervisor Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: Mar 9th, 2020

|  |  |
| --- | --- |
| **Week 22** | |
|  | |
| Summary of progress made since last review meeting  Designing User Interface of Dashboard for the organization with full functionalities. | |
| Activity/Data/Literature Reviews/Figure/Sample Analysis (Achievement based on Gantt chart)  Routes are being created for some new features such as:   * Role-based user * Bulk upload of files * File download and deleting on application * User handling | |
| Result of discussion with supervisor | Proposed tasks for the next meeting |
| Creating routes for New features. | Supervisor suggest to create models and form classes for new features. |

Supervisor Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: Mar 16th, 2020

|  |  |
| --- | --- |
| **Week 23** | |
|  | |
| Summary of progress made since last review meeting  Creating some routes for new features. | |
| Activity/Data/Literature Reviews/Figure/Sample Analysis (Achievement based on Gantt chart)  After successfully creating routes now creating models and form classes such as:   * Login Manager * Employee List * Employee Request * Announcement * Update Account Form after receiving Employee Request * Login Form class | |
| Result of discussion with supervisor | Proposed tasks for the next meeting |
| Creating models and form classes for new features. | After models and classes, now optimizing routes according to the new optimized algorithm. |

Supervisor Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: Mar 23rd, 2020

|  |  |
| --- | --- |
| **Week 24** | |
|  | |
| Summary of progress made since last review meeting  Successfully creating all the necessary models and forms required for the application. | |
| Activity/Data/Literature Reviews/Figure/Sample Analysis (Achievement based on Gantt chart)  Optimizing routes such as; Home, About, Organization-register, Employee-register, Login, Dashboard etc. with the User interface made for the application and check the working of each form by input data or using some functionalities according to the working of algorithm. | |
| Result of discussion with supervisor | Proposed tasks for the next meeting |
| Optimizing Routes according to new optimized algorithm. | Supervisor suggest to add some new features to the application like uploading and deleting files. |

Supervisor Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: Mar 30th, 2020

|  |  |
| --- | --- |
| **Week 25** | |
|  | |
| Summary of progress made since last review meeting  Optimizing the routes according to newly designed optimizing algorithm. | |
| Activity/Data/Literature Reviews/Figure/Sample Analysis (Achievement based on Gantt chart)  Now adding all the directories or file handling functionalities to each and every route or classes created like downloading the file from employee or organization drive by getting root directory, or uploading file by creating folder then upload file in it, deleting file by removing root directory of that file etc. | |
| Result of discussion with supervisor | Proposed tasks for the next meeting |
| Add Directory/File handling Functionalities like downloading, removing and uploading and cancel upload. | Supervisor suggest to add multi-upload file feature in the application. |

Supervisor Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: April 6th, 2020

|  |  |
| --- | --- |
| **Week 26** | |
|  | |
| Summary of progress made since last review meeting  After the optimizing routing, adding file handling functionalities like downloading of files, uploading files, deleting files, cancel upload etc. | |
| Activity/Data/Literature Reviews/Figure/Sample Analysis (Achievement based on Gantt chart)  Application already have the uploading feature but that’s not enough, so multiple files upload feature is also added so that it prevents from the wastage of time and do some productive work in shorter time.  Upload multiple files in the destination folder by bulk upload or deep bulk upload functions. | |
| Result of discussion with supervisor | Proposed tasks for the next meeting |
| Add multi upload files feature. | Supervisor suggest to design home page for the application. |

Supervisor Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: April 13th, 2020

|  |  |
| --- | --- |
| **Week 27** | |
|  | |
| Summary of progress made since last review meeting  Added multiple upload file feature in the application for the ease of employee and organization. | |
| Activity/Data/Literature Reviews/Figure/Sample Analysis (Achievement based on Gantt chart)  After adding all the important functionalities required and necessary user interfaces for all the other screens. Now creating the home page and designing its user interface so that, every individual user either employee or organization access the application starts from the home page then go to their desire sections. | |
| Result of discussion with supervisor | Proposed tasks for the next meeting |
| Creating New Home Page for the Project. | For the organization’s privacy purpose, add some employee authorization and validating features. |

Supervisor Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: April 20th, 2020

|  |  |
| --- | --- |
| **Week 28** | |
|  | |
| Summary of progress made since last review meeting  Designing the user interface for the home page of the application which can be visible to each and every employee and organization. | |
| Activity/Data/Literature Reviews/Figure/Sample Analysis (Achievement based on Gantt chart)  As all the application users access the application easily but there should be some rights for the employees so that they cannot reach to the private data of the organization and organization’s privacy remains protected,  In regarding the organization’s security adding some user authorization and validations according to their roles via registration. | |
| Result of discussion with supervisor | Proposed tasks for the next meeting |
| Adding User Authorization and validation. | Supervisor suggest to test the application by using and every function and remove the errors if it has. |

Supervisor Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: April 27th, 2020

|  |  |
| --- | --- |
| **Week 29** | |
|  | |
| Summary of progress made since last review meeting  For the user access adding the user authorization and validation as per the privacy of the organization. | |
| Activity/Data/Literature Reviews/Figure/Sample Analysis (Achievement based on Gantt chart)  The development side of the application is now completed.  Testing the application by using each and every option presents in the application and checking whether the file are being categorized by their extension or file/folder name.  Checking if any error occur during the testing and then removing it, after that again testing the whole application. | |
| Result of discussion with supervisor | Proposed tasks for the next meeting |
| Testing application and removing errors. | Supervisor suggest to optimize the server setting. |

Supervisor Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: May 4th, 2020

|  |  |
| --- | --- |
| **Week 30** | |
|  | |
| Summary of progress made since last review meeting  By testing the applications there are some errors which occur when application is running.  Then removing that errors and again test the application. | |
| Activity/Data/Literature Reviews/Figure/Sample Analysis (Achievement based on Gantt chart)  A server system needs optimal tuning for consistently leveraging the best possible performance from all the actions.  For the best performance need to optimize the server setting so that files can easily upload remove download in shorter period of time without any difficulties. | |
| Result of discussion with supervisor | Proposed tasks for the next meeting |
| Optimizing Server Setting for the faster speed and better performance. | Create some Docker files for the setup of application. |

Supervisor Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: May 11th, 2020

|  |  |
| --- | --- |
| **Week 31** | |
|  | |
| Summary of progress made since last review meeting  Done with all the optimization on server setting for the best performance for all the action perform on the application. | |
| Activity/Data/Literature Reviews/Figure/Sample Analysis (Achievement based on Gantt chart)  The application uses the Flask framework and maintains a hit counter in Radis.  There are several steps which should be followed to create Docker files.  First of all build setup by defining dependencies, then create Docker file and then define our services in a compose file. | |
| Result of discussion with supervisor | Proposed tasks for the next meeting |
| Creating Docker files. | Upload the whole project including all files, pictures, database connection on cloud container. |

Supervisor Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: June 1st, 2020

|  |  |
| --- | --- |
| **Week 32** | |
|  | |
| Summary of progress made since last review meeting  Creating the Docker files by following several steps and check if the files have error then remove it. | |
| Activity/Data/Literature Reviews/Figure/Sample Analysis (Achievement based on Gantt chart)  As now Docker files are ready, now build and run the compose files and edit the compose file as per the application need.  After building and re-building update the application, and upload the whole application on cloud container so that employees and organizations can easily use it. | |
| Result of discussion with supervisor | Proposed tasks for the next meeting |
| Uploading on cloud container. | Complete all the documentation necessary for the project. |

Supervisor Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: June 8th, 2020