**Requirements Implemented**

1. Login/Register for users to register and login to their dashboard.
2. Homepage where all the posts from different users can be seen
3. Dashboard in which users have different features like posts,users and operations.
4. Users Implementation in which there are 3 kind of users - site-admin (top level) , org-admin (middle level) and user (bottom level).
5. Higher level users can create users of lower levels.
6. Posts implementation in which users can manage their posts (CRUD) and also posts of lower level users.
7. Operations implementation in which we can check the status of all the operations in the server with the help of pie chart and list format of all the operations.In this implementation there can be 3 cases - Run Successfully , Errors and Did Not Run.
8. Errors is further classified into 3 cases - Failed , System Error and Space Not Available.

**Use Case Scenario With Description**

1. Admin Dashboard (Users) - Users implementation in which there are 3 levels of users site-admin,org-admin and user.In this higher level users can manage lower level users.
2. Admin Dashboard (Posts) - Posts implementation in which users can manage their posts as well as posts of lower level users.
3. Admin Dashboard (Operations) - Operations implementation in which status of all operations on the server can be seen with the help of pie chart and list format of all operations is also shown.In this implementation there are 3 cases - Run Successfully , Errors and Did Not Run.Errors are further classified into 3 cases - Failed , System Error and Space Not Available.

**Database Structure**

There are currently 4 tables in the database whose structures are shown below.

Users Structure

Id

Name

Email

Role

Email\_verified\_at

Password

Remember\_token

Created\_at

Updated\_at

Posts Structure

Id

User\_id

Title

Body

Created\_at

Updated\_at

Operations

Id

Type

User\_id

Server\_id

Created\_at

Updated\_at

Errors

Id

Type

Details

Description

Server\_id

User\_id

Created\_at

Updated\_at

**Classes Added/Modified And Their Basic Functionality**

1. AdminPostsController is used for managing the posts.
2. AdminUsersController is used for managing the users.
3. Auth Controller is used for managing authentication like login/register.
4. AdminOperationsController is used for managing the operations on servers which includes 3 operations - Run Successfully , Errors and Did Not Run.
5. HomeController is used for managing homepage and also logs user to dashboard once he register/login.

**Tests Performed To Check The Functionality**

1. Add User.
2. Edit User.
3. Delete User.
4. User Validations like name and password can’t be empty.
5. Higher Level users can create lowel level users only.
6. Add Post.
7. Edit Post.
8. Delete Post.
9. Post Validations like title and body can’t be empty.
10. Operations Implementation in pie chart and list format.