Authentication

Users need to be authenticated before they access into the system

# Sign Up

User has to register into the system by providing some credentials. She/he has to provide her name, username, email and password. The system will check if the given credentials are valid. Furthermore, it will check if the username and email are unique. If not, the user has to provide another username or email. If every credential is valid and verified then her account will be registered in the system.

# Sign In

Any registered user can sign-in into the system by providing her username or email and her password. The system will validate and verify the given information. If the information is valid and verified, the sign-in phase will be completed. Otherwise it will not let her access the system and ask her to try again.

# Account Recovery

If any user forgets her username or password, she can recover her account by providing her email. The email has to be the same email as she used during signing up. The system will send an email containing corresponding user’s username and password. User can use that username and password to sign in into the system.

# Sign Out

During signing out the system will save all her unsaved file and sub systems. Then the system will let the user to sign out from the system.

Project Management

Everything related to projects or files will be handled in project management.

# Project Planning

User can create project and she will have a repository of that project. To create a project, she needs to provide project name, project description, project tags and other information. She can make the project private or public. She can assign other users as developers to her project. The assigned developers will get notified.

Any user can create an issue description about any public project. If the issue is created from project progress, the corresponding codes will have a reference of that issue.

# File Management

In a project a user can upload files or folders. To upload file or folder she needs to provide a description of that upload. She can mark the progress of the uploaded file or folder. The system will control the versions of that file or folder.

User can download file or folder from a particular project.

User can release a certain project to a particular version. That release version will be saved. If the released project is public, any user can access and download that particular release.

User can rebase a particular file to the current repository. Rebase means she can replace a particular file version to any of its other version.

# Manage Version

The system will manage all versions of a particular file. If any existing file is reuploaded, the system will check for difference of that file and the new file. It will store both files but keep different versions.

Profile Management

User can edit her profile information. She can change her profile picture, name, skill tags, biography. If she wants to change her username, the system will validate and verify the new username. After username verification the system will store the new username. If she wants to change her password, she has to provide her old password. After password verification the system will prompt for new password. The system will save her new information into the system.

Search

User can search files or folders that is in her own project repositories. If the file or folder exists, it will show all the information related to it. Any user can search other users by providing their username. She can also search all public projects by providing project’s name.

Communication

A user who gets assigned by another user to her project will get notification about that project. The assigned user will be the developer of the project and the user who assigned her to the project will be the master user. If any project is released, all users having some of the skill tags of the project will be notified about the project. Any user can comment her thoughts on any public project or file.