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Software Design Specification

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Introduction:

This document will provide a basic guideline to help develop a document storage system as per the requirements stated by PERL International. The document contains different sections to describe the overall working procedure to be maintained throughout the course of development. Section 2 will start with describing the document conventions while section 3.1 and 3.2 will discuss about the design components and a high-level component design. Section 4.1 amd 4.2 contains class diagrams and sequence diagram that are going to be used to develop the project and section 5 will contain the database design followed by section 6 which will contain the implementation plan.
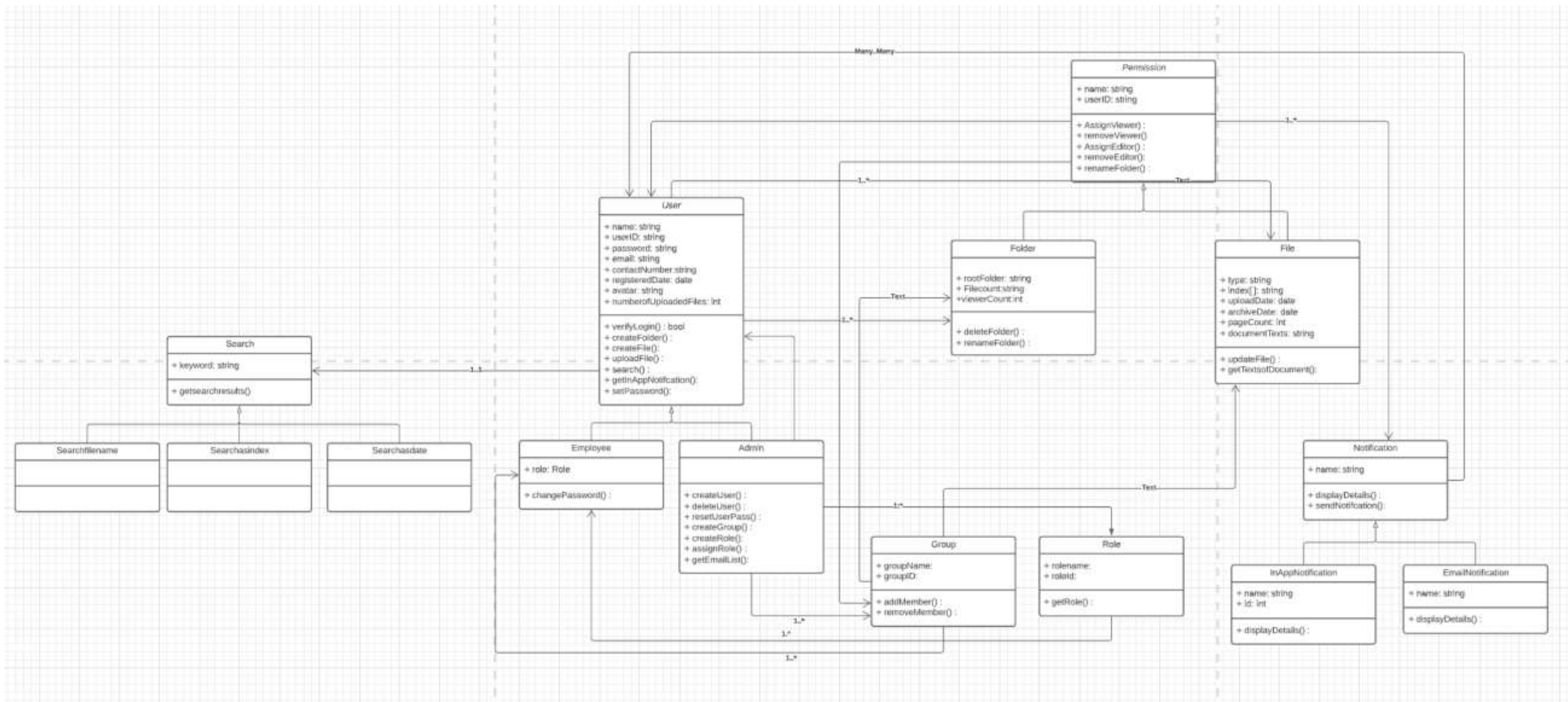
Document Conventions:

For the Class Diagrams, Sequence Diagrams and ER diagrams, seperate legends will be provided in the respective sections. Other than that, this document uses the following conventions: Emphasized word - word, Quoted Text- "qoute".
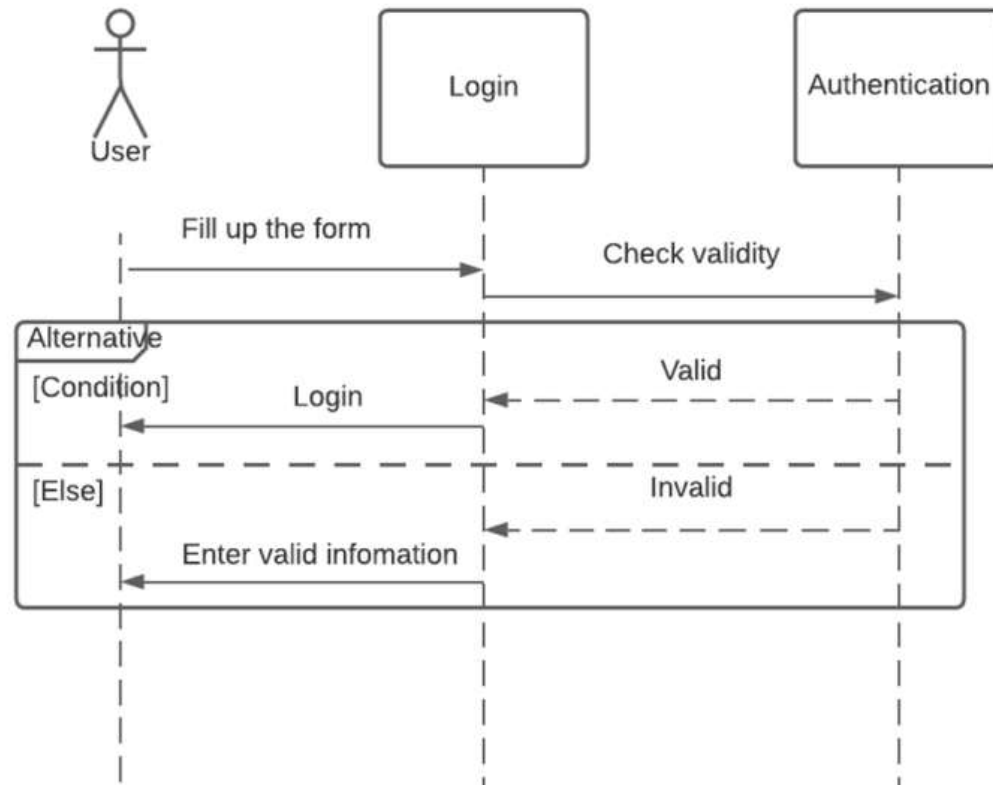
Description of Design Components:

Django   https://docs.djangoproject.com/en/3.1/
Android   https://developer.android.com/
Firebase   https://firebase.google.com/docs
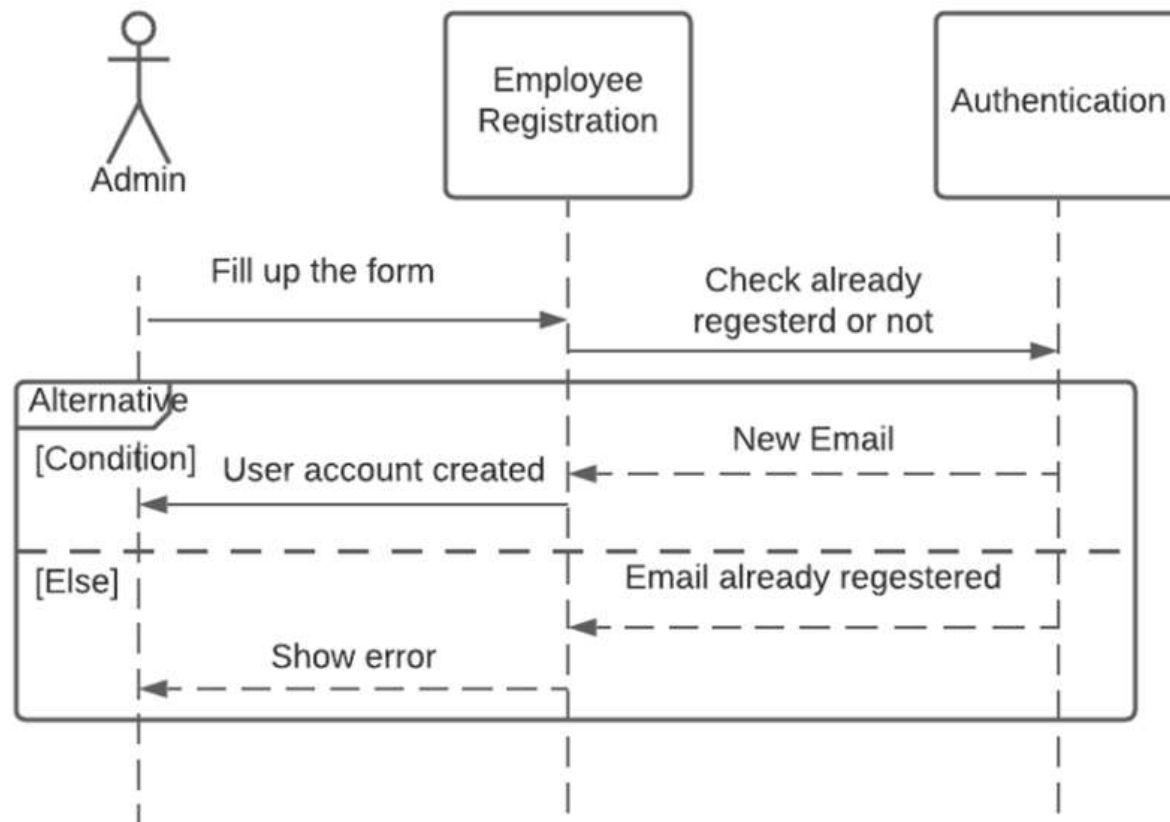HTML & CSS https://www.w3schools.com/html/html_css.asp
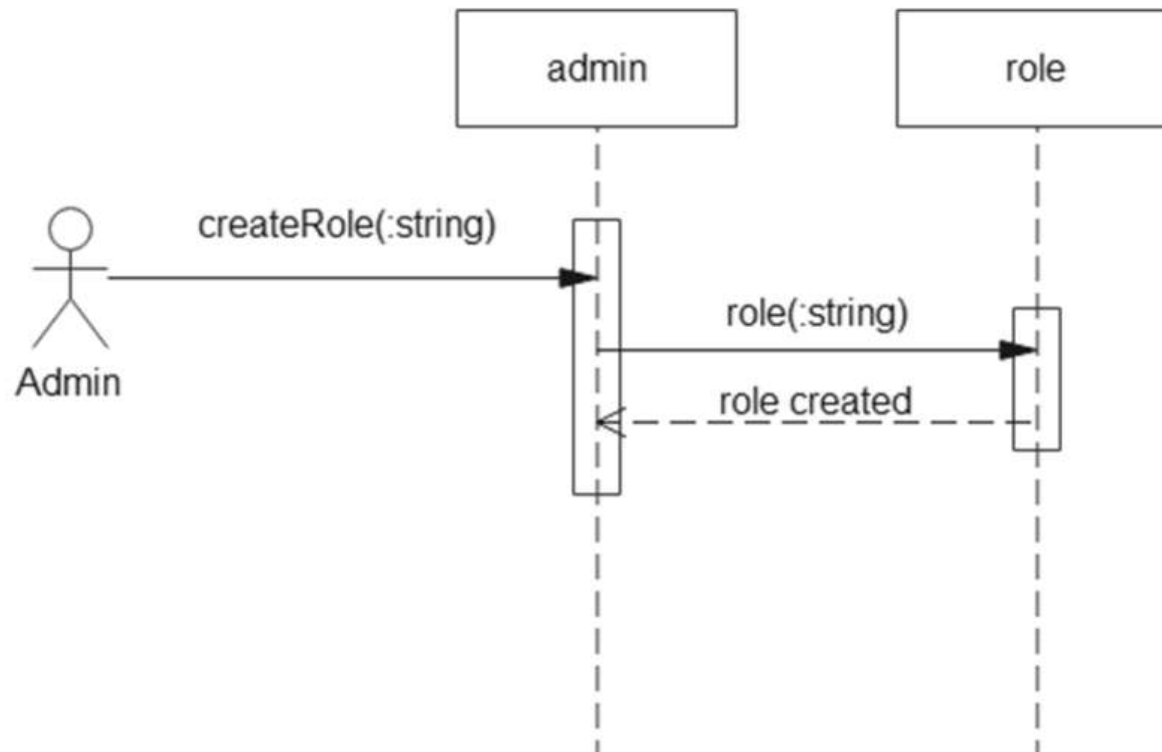
Class diagrams:
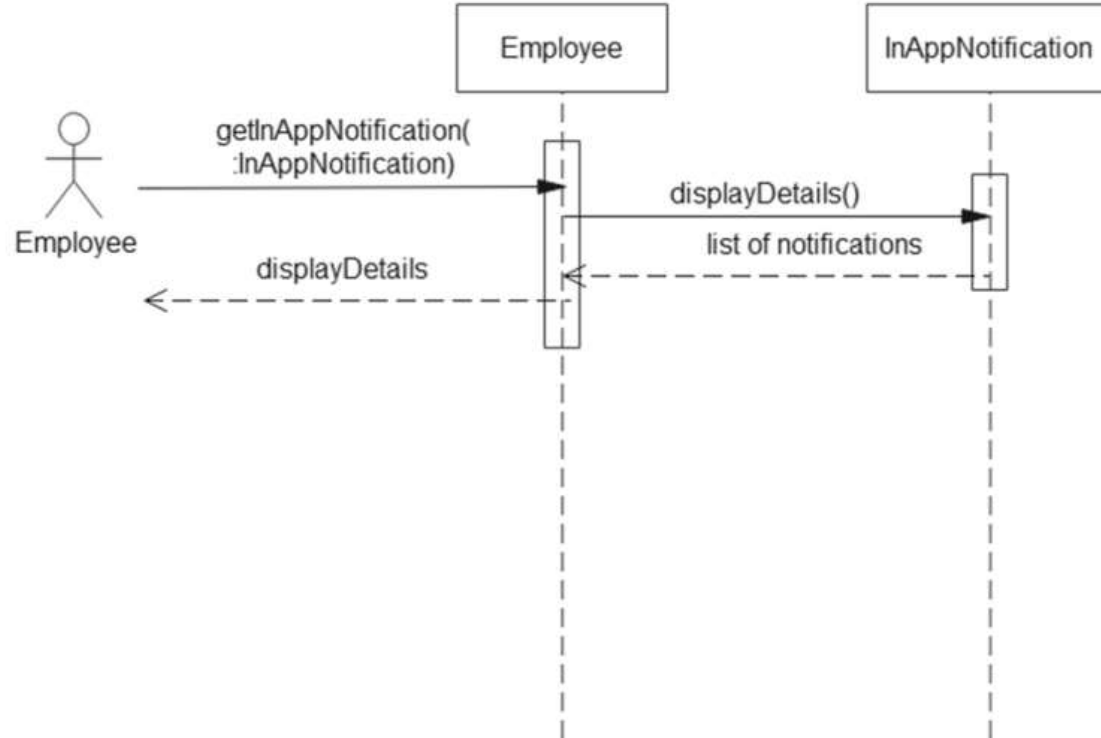
Sequence Diagrams:

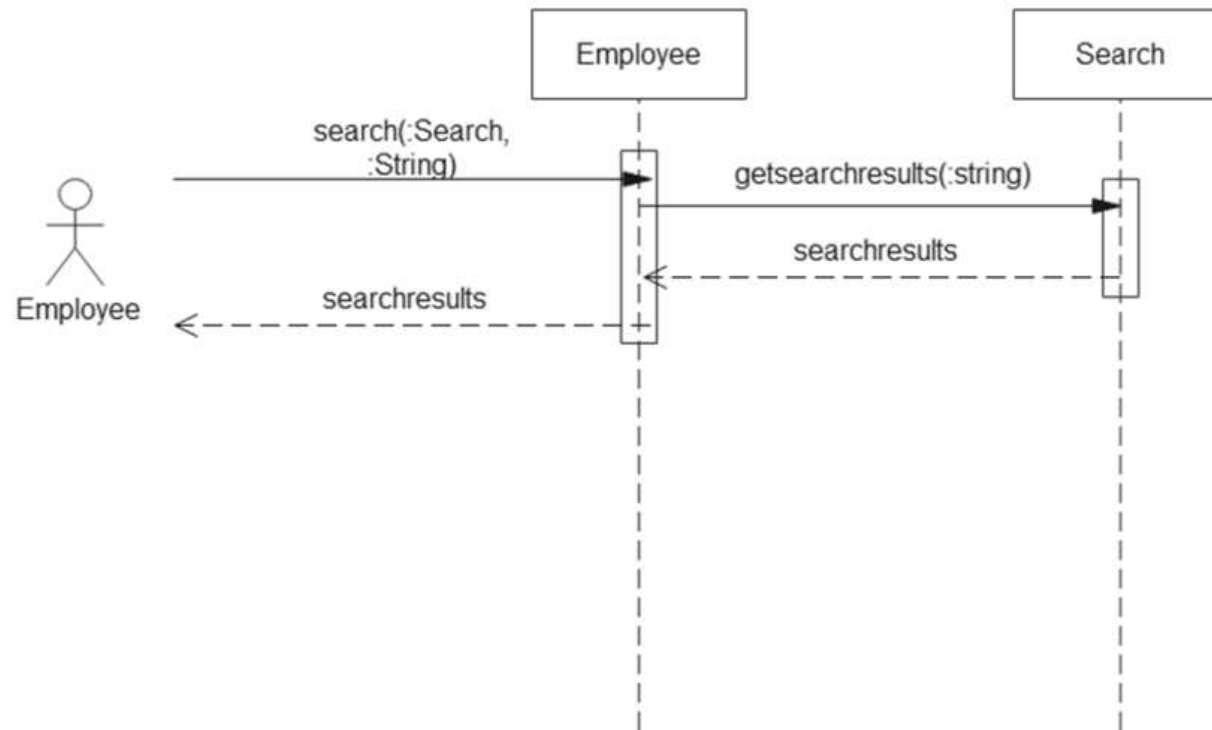- Employee LogIn:

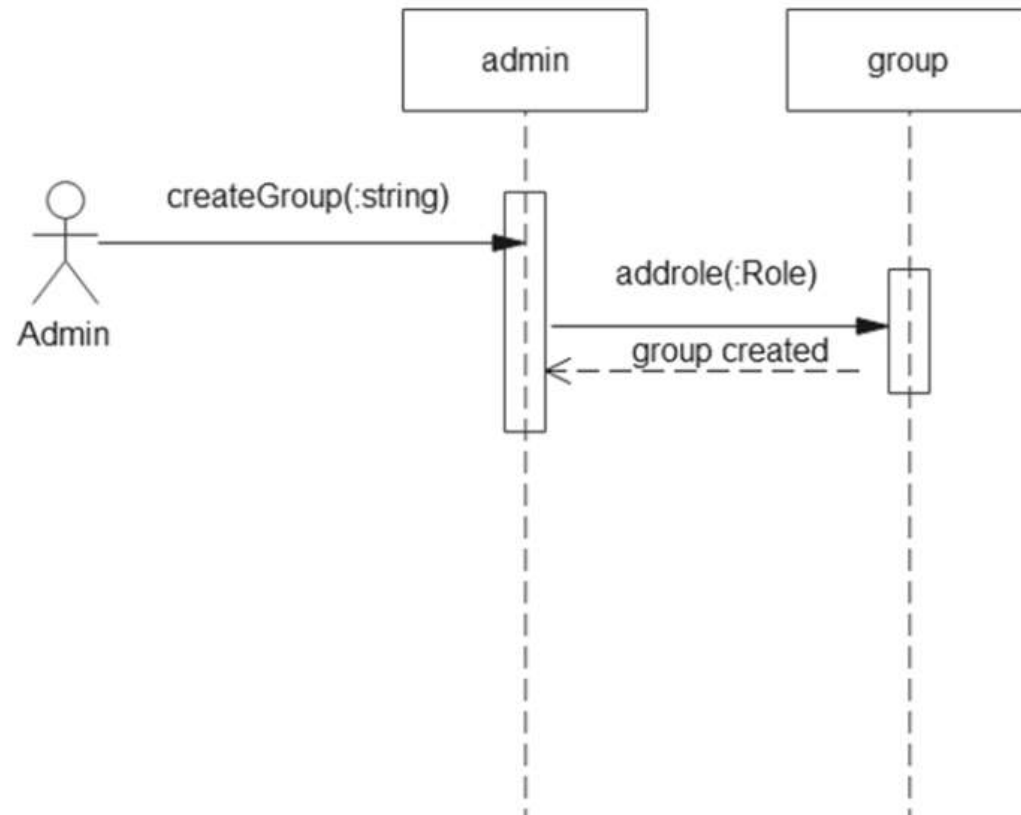- Employee Registration:
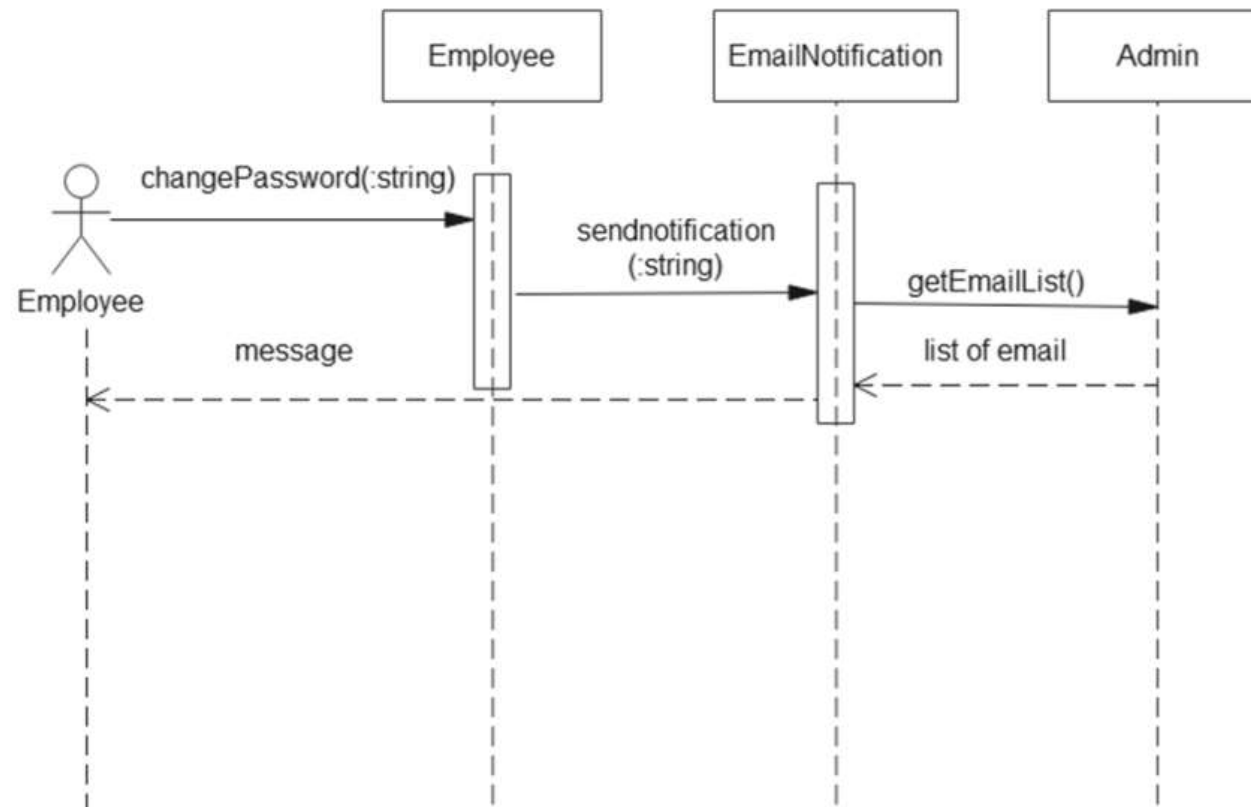
- Create Role:

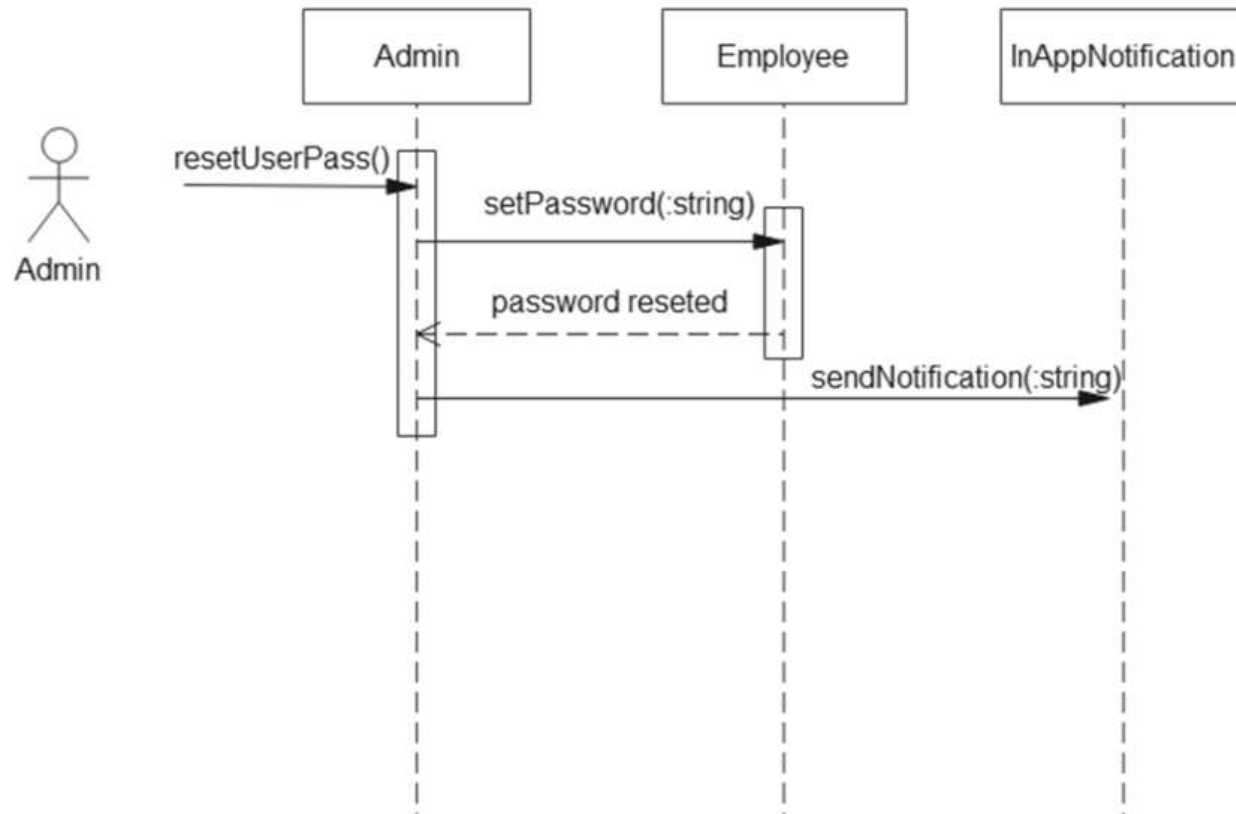- Get notification:

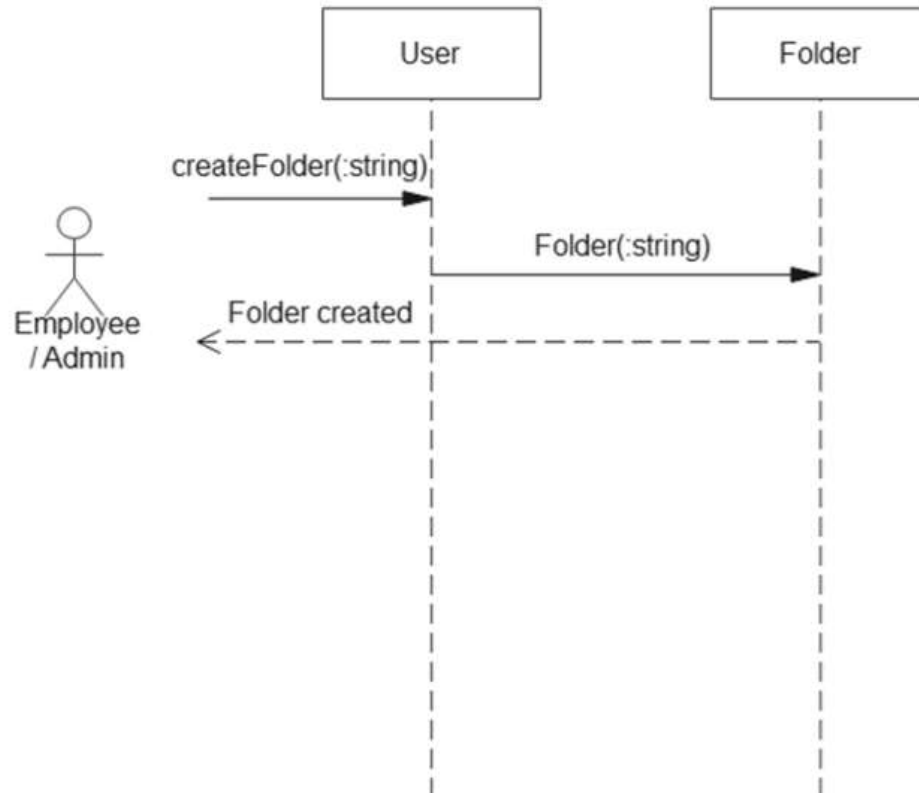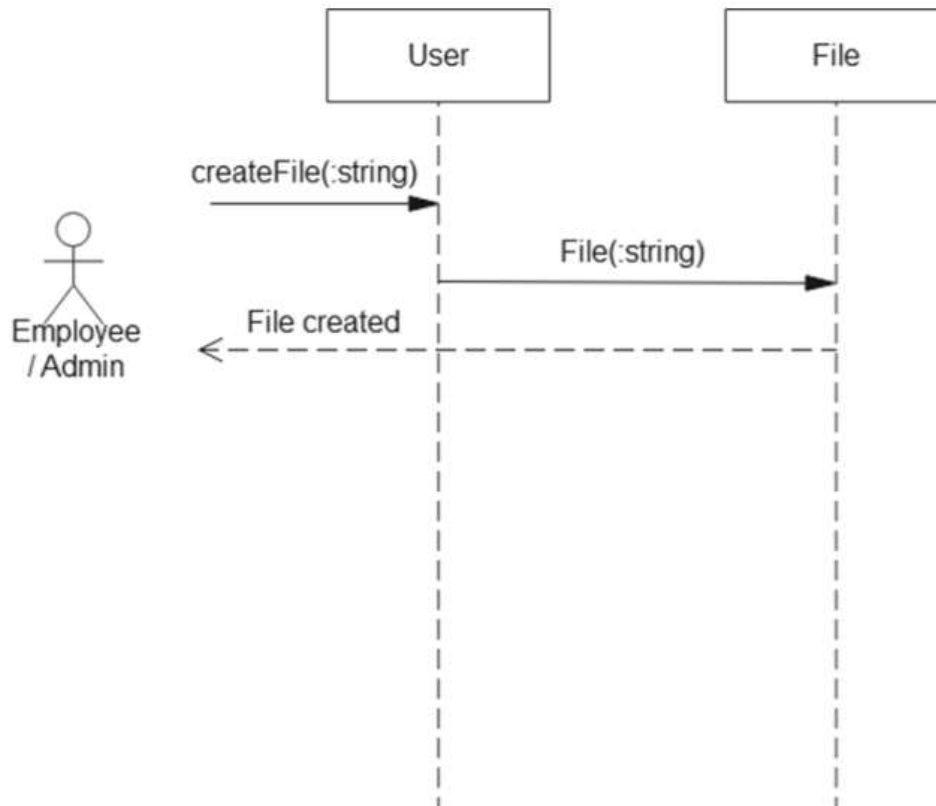- Search:

- Create Group:

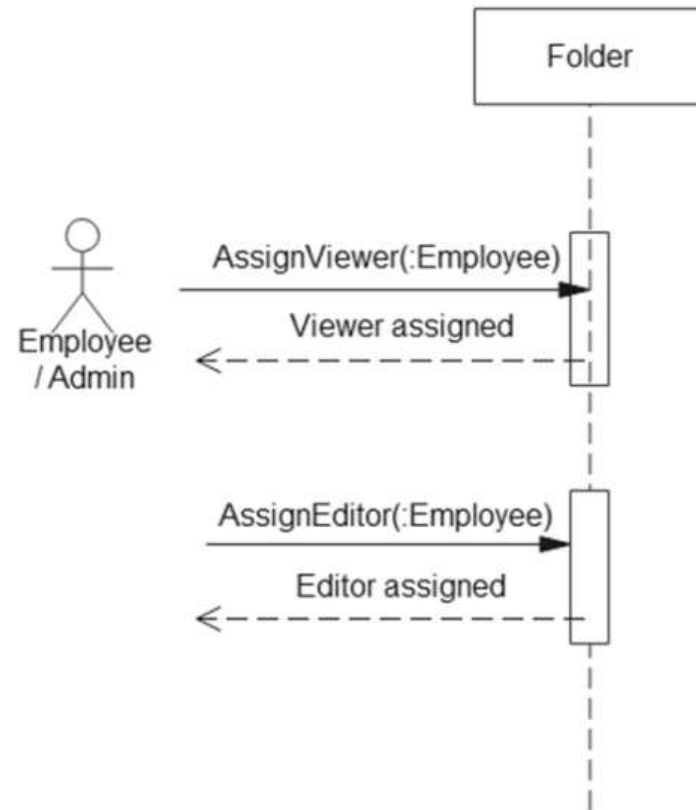- Request for change of password:

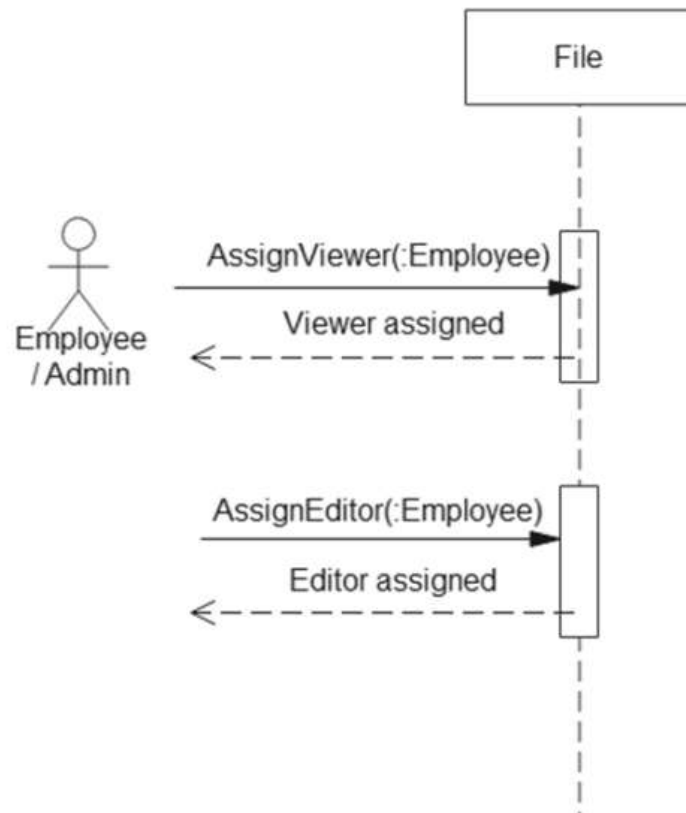- Reset user's password:

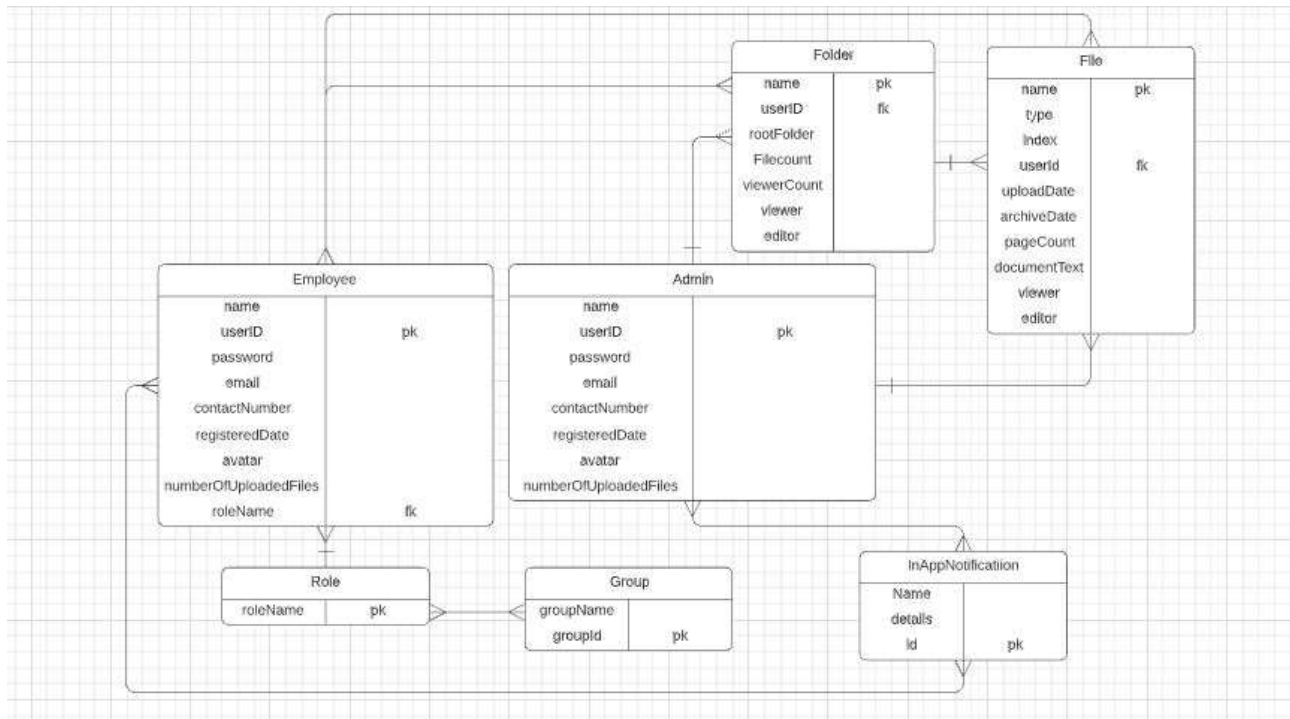- Create Folder:

- Create file:

- Assign users to folder:

- Assign users to file:

Database Design:

- ER Diagram

Implementation plan:

As for implementation, classes and database will be designed according to the diagrams provided above. At first the basic user authentication and UI designs will be designed for both the web application and mobile application. Working with the database will come after that and then connecting the same database to both platforms will be dealt with. If time is available at the end, UI will be worked on a little longer.