Feedit System Development

Feedit is a system that will consolidate feedback from other other systems through REST API call.

The aim is to provide a platform for other developers to see what users have said about their system through the dashboard of Feedit. Developers who wish to hook up to this system will first have to create a project in Feedit before they can start sending the feedback from their system to Feedit.

You will be developing a Single Page Application (SPA) for feedit.

Iterative programming phase

Phase 1

Presenting the UI interface through prototyping tool

- Dashboard for every systems managed by Feedit
    - Data table to show the feedback for each system
    - Chart for statistics (e.g. total feedback in a given month)
- Administrator Page for managing systems that will be allowed to interface with Feedit

Note: *This does not have to be an exact replica of what the end product is going to be.*

Phase 2

Developed the UI interface from the earlier designed prototype

- You will be using React library for frontend development.
    - React-router for navigation between different pages in the React
    - React-redux is not necessary but can be used if you think you will need it

Note: *Please decide between React Bootstrap or Material UI development framework*

Additionally, design the REST API interface necessary to service the request for the web application to work

Example:

Description: Creating a new system in Feedit
Since: 1.0.0
Security: Requires an authenticated administrator
Usage: POST /api/system/new/{systemName}
Consumes: application/json

```
{
   "sysVersion" : "6.1.2"
}
```

Produces: application/json
Sample Output:

```
{
   "system": "Application",
   "sysVersion" : "6.1.2"
   "created": "Ok"
}
```

Phase 3

Developing the backend server required to service the request from the frontend and other systems.

You will be using spring boot as the framework together with Java / Kotlin programming language.

Documentation

The usage of the system must be documented through the README file in the git repository

Tools Required

- Justinmind Prototyping Tool
- Intellij 2019 (Activated w/ student license)
    - Frontend Development
        - React Library (By Facebook)
            - create-react-app
    - Backend Development
        - Java / Kotlin Programming Language
        - Spring Boot
        - Gradle Build Tool
- Docker & Docker Compose
    - Database Setup – SQL (Postgresql)
- Postman
    - To mock request from other systems (i.e. Sending the feedback to Feedit)
- Git & Github Account
    - For tracking changes in source code during software development