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Java Major Project

Document History

Ver. No	Release Date	Created By / Modified By and Date	Reviewed By and Date	Approved By and Date	Remarks and Changes Made
0.1	Oct 2022	Alka Jhanwar		Sachin Atre	Initial draft.

Online Health Care App

Project Statement:

Develop web-based application for health care system.

Abstract of the System:

Main goal is to develop a web-based system for health care system.

System Roles:

- Admin
- Doctor
- Patient

Admin Role:

- Central access to system
- Add/delete/update/view Doctor.
- Create login credentials for doctors.
- Add availability of all the doctors
- Can change the appointment status
- Can see patient list
- Can view all appointments and approve/cancel them.
- Can check the list of complains and act accordingly
- Send account details to doctor through email.
- Unlock accounts if locked due to 3 invalid login attempts
- Reports: - Patient reports, doctors reports.
- Can see logs of user's activity

Doctor Role:

- Login into system (credentials given by admin)
- View all appointments
- Can check the feedback.
- Change password

Patient Role:

- Register and login into system.
- Activate account using activation link(link will be shared on registered email id).
- Login with OTP.
- Can search for the doctor according to specialization. Provide the following options for filtering search results:
 - a. Rating

- b. Availability (Morning/evening).
 - Book an appointment
 - Cancel Appointment.
 - Can check the appointment status
 - Can provide the feedback and rating about the doctor
 - Can raise complain and check the status of complain.
 - Send reminder if complain is not resolved on time.
 - Change password
 - Update profile information.

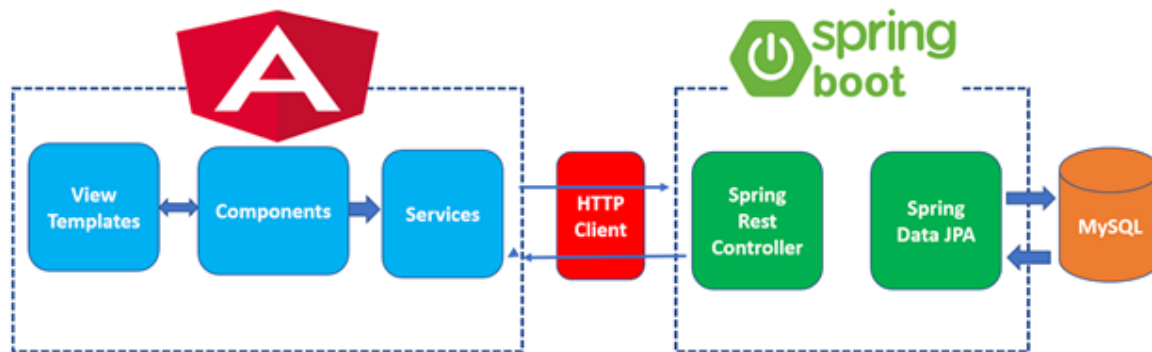
Note – Make assumptions whenever required in the project.

Technologies to be used:

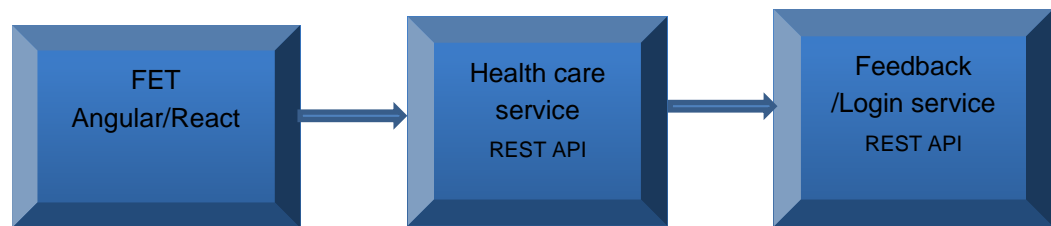
- Spring Architecture
- Spring Rest for Web Services
- Spring Data JPA
- MYSQL
- HTML5
- CSS3/SASS/ Bootstrap/RWD
- Angular/REACT
- Static code validator – Linter/Hinter
- Editors – VS Code, Eclipse, STS, etc.
- Code coverage reports – SonarQube
- Git repository

Other DevOps tools to be implemented.

System architecture:



You are also expected to integrate the feedback and login services with this project and there will be three services where health care service will internally give call to the feedback and login service which will be consumed in angular/react.



1. Bonus points:

- Earn bonus points by implementing following features.
 - Report builder(providing different options to build reports)
 - Captcha to avoid brute force attack
 - Implementing SSL/TLS security