Deliverable 2
Team Technical Presentation

SEXUALLY TRANSMITTED DISEASES INFORMATION APP

Across The Board Champion

Yoshihisa Miyamoto (Presenter), Changrui Zhang (Presenter), Anil Gadgotra, Divya Datla, Xueting Chen, Prashanth Subrahmanyam

CS6440: Introduction to Health Informatics

March10th, 2019

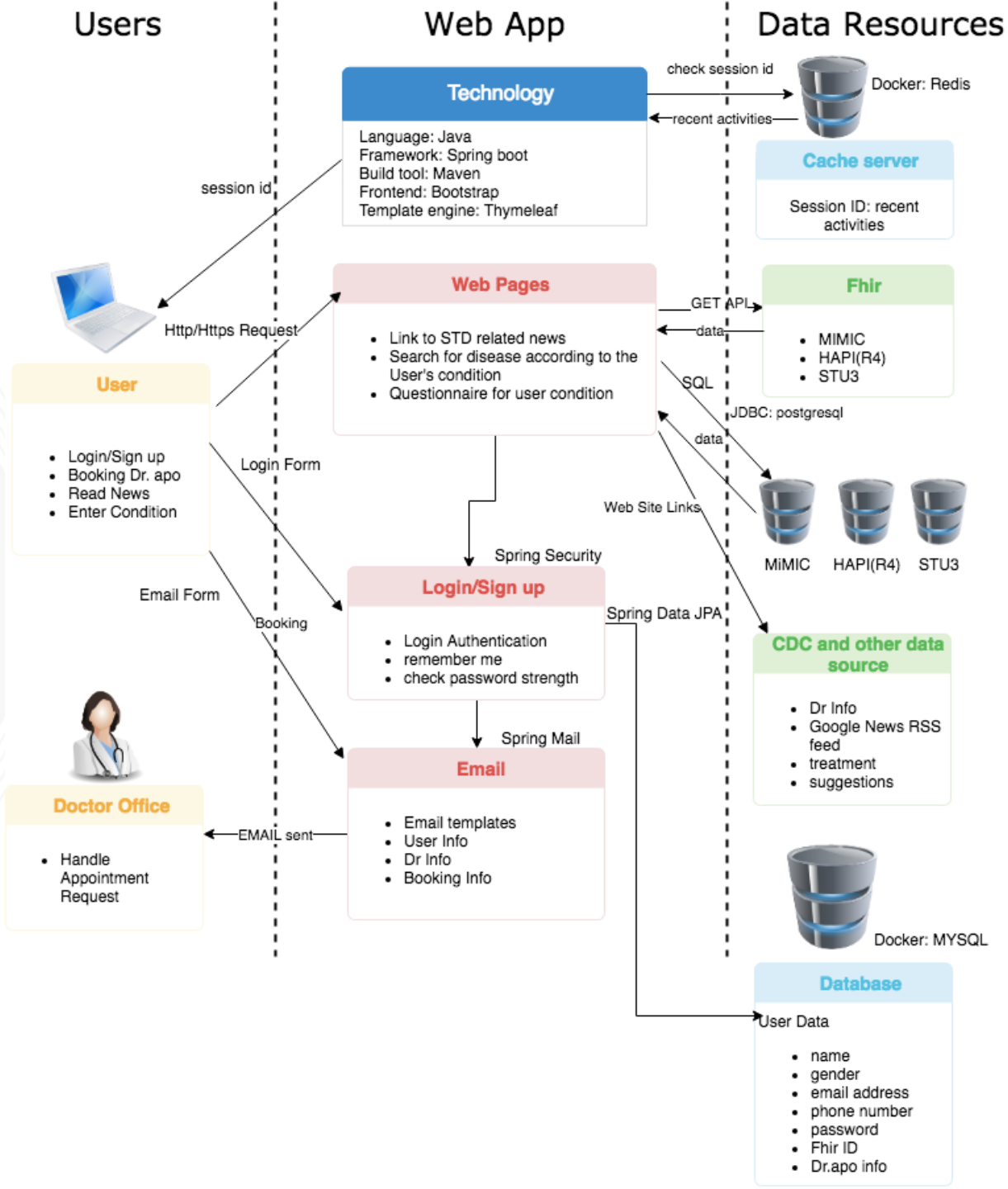
Video Link to Presentation

https://youtu.be/ckTnW2uDckE

Agenda

- Architecture Diagram
- Technologies
- Gantt Chart and plans for the next few weeks.
- Further research and next steps

Architecture Diagram



Technologies

- Application
  - Language: Java 1.8
  - Framework: Spring-Boot
  - Build Tool: Maven
  - Frontend: Bootstrap
  - Template engine: Thymeleaf

Reason for the choice

- Fully supports TLS1.2 and TLS 1.3 for secure communication
- Easy configuration and local development with embedded tomcat
- Familiarity, used in Fhir startup proj. could be Gradle.
- Responsive and easy to use
- Spring-boot recommends

- Data Resource
  - API to Fhir or SQL to postgre data source
  - Web Links to CDC and other data sources

- From HDAP guide, we could get the data by API or SQL, though database access could be difficult from local dev as we might need to be on VPN
- Web Links and video for Disease treatment, suggestion and news

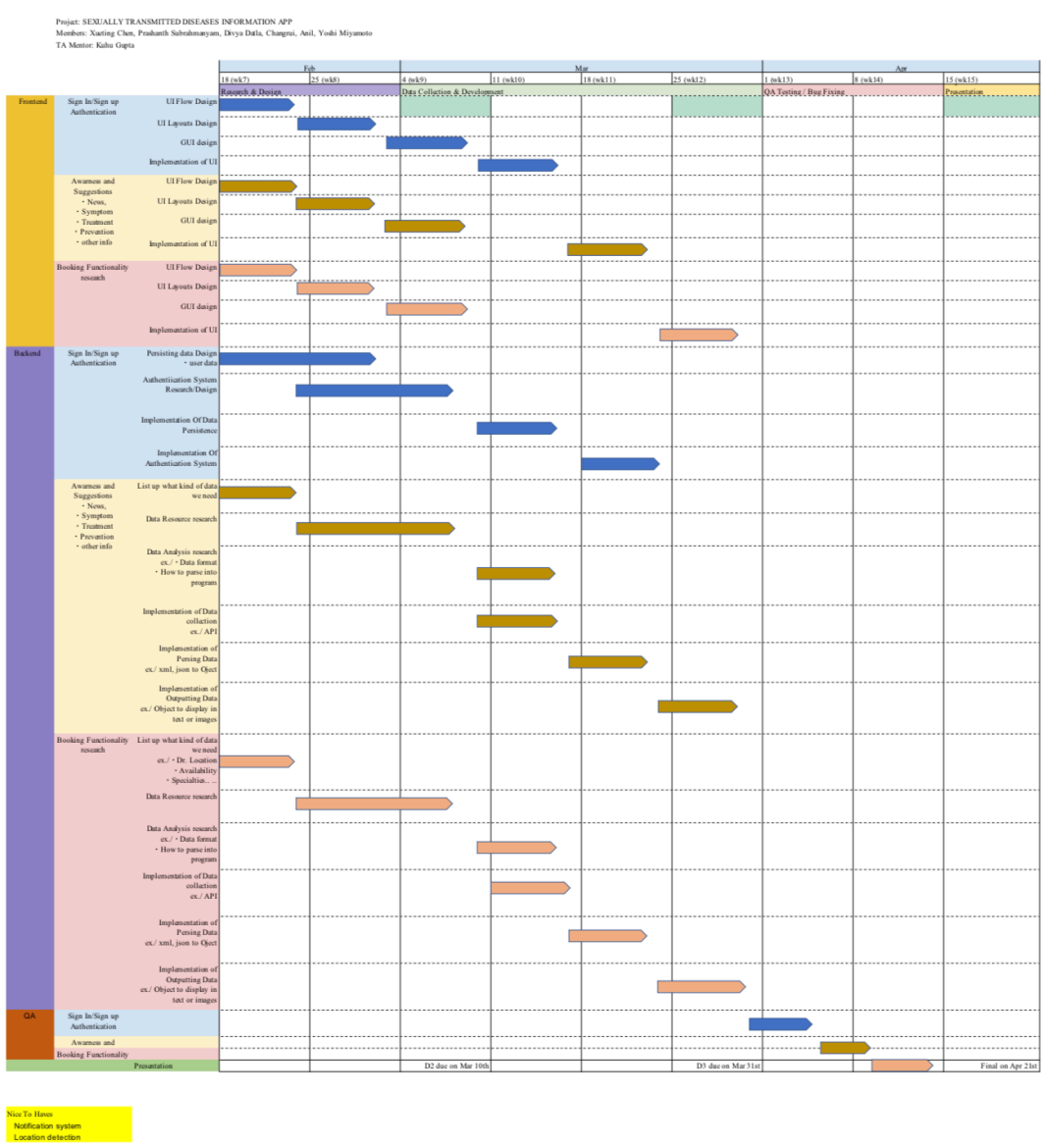
- Data Storage
  - MySQL(Docker)
  - Redis(Docker)

- Both will be using Docker images to run.
- Redis Cache server is storing session id to keep track visiting multi pages

- Development
  - IDE: IntelliJ

- All team members are familiar with

Gantt Chart



- UI Design (Divya and Xueting)
- Data Research and Integration
  - Sign in/up (Anil and Xueting)
  - Booking (Anil and Xueting)
  - Suggestion (Changrui)
  - Awareness (Prashanth)
- Architectural Design (Yoshi)
- Database Design (Anil)

Further Research

- Done
  - Get to Know STDs
  - Questionnaire Design
- To Do
  - Frontend Implementation
  - Backend Implementation