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**CMPE 202-03 Team 11**

**Project Journal Week 1 :**

1. Explored options for technology stack for database.
2. Decision was made towards Java Spring Boot Based backend with JSP.
3. Helped create folder structure for JSP Models.
4. Added Models for all java Data Access Objects (DAO)
5. Exploration of JavaServlet Pages.
6. Faced issues while setting up maven and spring-context configuration
7. Served the role of Scrum Master and setup the working JIRAs.
8. Explored other ideas like MERN stack applications

**Project Journal Week 2 :**

1. Setup for Java Tomcat hosted application with server.xml and web.xml files
2. Resolved multiple integration issues.
3. Made Activity diagram based on the Web application flow.
4. Team decides to pivot – new application stack : M(MySQL) E (ExpressJS) E(Express Server) N(Node.js) [MEEN Stack]
5. Started working on architecture and workflows for the Booking APIs

**Project Journal Week 3 :**

1. Added the cookie validation logic in all APIs.
2. Create Views in EJS (Booking) and models for to store booking details.
3. Setting up routes for Payment and Flights Service (View Flights).
4. Created PostgreSQL tables, functions and procedures.
5. Logic for Mileage rewards point : Customer category based on no. of flights booked.
6. Added final price and discount logic API for Payment flows.

**Project Journal Week 4 :**

1. AWS EC2 instances setup was done.
2. Application was deployed with AWS ElasticLoadBalancer
3. Setup Auto scaling and establishing connections between DB and APP servers.
4. Ran Sanity checks on all deployments and monitored application health.

*Documentation :*

Communication - XP core value.

Activity Diagram.

Deployment Diagram.

Wireframe UI - Current Booking, Past Booking, Cancel reservation, Book Flight.