

Wiley Edge Capstone Proposal

Date: 3/20/2023

Final Deliverable: March 27, 2023
Sprint: March 20 – March 26, 2023

Team 4: Birdy Squad
Method: SCRUM

Product Owners:
Sean Palm, Elliott Paredes

Project Name: Flock

Project Description:

This project is a Twitter clone created using Java, SQL, HTML, CSS, JavaScript, Spring Boot, and MVC. It allows users to submit and retrieve tweets that are stored in a SQL database. The Spring Boot framework provides a lightweight and easy-to-use environment for building and deploying web applications. The MVC architecture provides a well-defined structure for separating concerns between the model, view, and controller layers.

Shareholder:
Wiley Edge

Scrum Master:
Jonathan Del Vecchio

Developers:
Nicholas Tan, Deniz Childir
Jonathan Del Vecchio, Andrew Wang

Mission Statement:

Providing an easy-to-use application that allows users to post, reply, read, and interact with posts created by other users and themselves.

User Capabilities:

Main Goals:

- Add, remove, and update their posts
- Reply to other people's posts

Stretch Goals:

- Filter based on user profile
- Account creation and login feature
- Direct messaging from one user to another
- Ability to for a user to interact with post and replies using buttons (like, dislike, etc.)

Technologies used:

Backend

- Java
- SQL
- Spring Boot

Frontend

- HTML
- CSS
- JavaScript

Stretch Goal:

- Angular (Front End)

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Sprint Planning

Monday, March 20, 2023

General Goals:

Create Definition of Done

Create Sprint Backlog

Plan out Sprint timelines

Design Wire Frame

Design Base Project Structure

Sprint Backlog

Tuesday – Initial Build Day

Daily Stand Up: 10:00 AM PST (15 Min)

What

Set Up Flock Git Repository

Why

Handles all files and documents related to project

How

Create a Git repository and trouble shoot all issues for each team member as a group

Java application utilizing Springboot Framework

Handles, all logic, entities, and database CRUD operations.

Outlining the application focused on Dependency Injection theories utilizing IoC. Maintain MVC Structure.

Front end interface utilizing HTML, CSS, and JavaScript.

Provides user interface for end user, maintains structure of data and information, and creates an easy to user experience.

Outlining the user interface with a wireframe, structure the front end to easily interact with back end inquires.

MySQL Database

Stores and maintains all data regarding application.

Outline database structure, write SQL queries,

Reporting Structure

Build a reporting structure to send daily to product owners

Design an easy-to-use interface for product owners listing progress, bugs and blocks.

Sprint Backlog (Continued)

Wednesday – Debugging and Testing

Daily Stand Up: 10:00 AM PST (15 Min)

What	Why	How
<i>Mock Test of Project</i>	<i>Testing issues such as usability, failures, and revamping structure to improve reliability.</i>	<i>Each team member will create tests to engage with each function of the project and determine if there are risks of failure.</i>

Thursday – Review Build and Identify Opportunity

Daily Stand Up: 10:00 AM PST (15 Min)

What	Why	How
<i>Resolve all bugs and implement improvements</i>	<i>Create a final project that can be presented and is usable</i>	<i>Each team member will be assigned a different section of project to analyze and debug, any large issues will be done on an entire team level</i>
<i>Stretch Goal Implementation</i>	<i>Improves project for even more usability and creates better experience for end user</i>	<i>Determine which goals can be achieved for Final Friday build and debug.</i>
<i>Create Sprint Review</i>	<i>Inspect the outcome of the Sprint and determine future adaptations.</i>	<i>Outlining the user interface with a wireframe, structure the front end to easily interact with back end inquires.</i>

Friday – Final Day

Daily Stand Up: 10:00 AM PST (15 Min)

What	Why	How
<i>Stretch Goal Implementation</i>	<i>Demonstrates our ability to Improve a project, maintain an agile development environment</i>	<i>Clone entire project and use Angular for front end use.</i>
<i>Finalize Sprint Review</i>	<i>Finalize story points of increments of value obtained from the sprint</i>	<i>Review all progress and achievements.</i>

Sprint Ends

Wire Frame

Site Name

Post Title

Space for text input

Choose file...

Current Date&Time

Submit

Poster's Name	Post Title
Image	Post text
	Date&Time of Post

Poster's Name	Post Title
Image	Post text
	Date&Time of Post

Poster's Name	Post Title
Image	Post text
	Date&Time of Post

Poster's Name	Post Title
Image	Post text
	Date&Time of Post

Base Project Outline

Back End:

- com.sg.flock
 - App.java
- com.sg.flock.controller
 - Controller.java
- com.sg.flock.dao
 - UserDao.java
 - UserDaoDB.java
 - PostDao.java
 - PostDaoDB.java
 - ReplyDao.java
 - ReplyDaoDB.java
- com.sg.flock.entity
 - User.java
 - Reply.java
 - Post.java
- com.sg.flock.service
 - ServiceLayer.java
 -
- TestPackages
 - com.sg.flock.dao
 - UserDaoImplTest.java
 - PostDaoImplTest.java
 - ReplyDaoImplTest.java
 - com.sg.flock.service
 - ServiceLayerTest.java
- Other Test sources
 - src/main/resources
 - application.properties
 - src/test/resources
 - application.properties
- Project Files
 - pom.xml
- Database Files
 - flock.sql

Front End:

- FlockPage.html
- FlockPage.css