

Table 1: Revision History

<b>Date</b>	<b>Developer(s)</b>	<b>Change</b>
09/20/2022	Anton Kanugalawattage Dipendra Subedi Youssef Rizkalla Tamas Leung Zhiming Zhao	Initial Document

# Development Plan CodeChamp

Team #12, Team 12.0  
Kanugalawattage, Anton  
Subedi, Dipendra  
Rizkalla, Youssef  
Leung, Tamas  
Zhao, Zhiming

## **1 Team Meeting Plan**

- Weekly meetings on Tuesday 6:30pm
- Adhoc calls when necessary
- Every member will add items to the meeting agenda

## **2 Team Communication Plan**

- Discord
- Github Issues

## **3 Team Member Roles**

- Scrum Master: Tamas Leung
- Front-end Lead: Anton Kanugalawattage
- Back-end Lead: Youssef Rizkalla
- Design Lead: Dipendra Subedi
- Testing Lead: Zhiming Zhao

## 4 Workflow Plan

- Git:
  - All features are developed onto separate branches
  - Each feature branch can only be merged into the master branch via a pull request
  - Each pull request must be at least approved by at least two members
  - Github Actions CI to auto test new pull requests
- Issues:
  - Tasks will be placed into issues board based on priority, type and technology
  - Issue Types:
    - \* Feature
    - \* Bug
    - \* DevOps
  - Technology:
    - \* Front End
    - \* Back End
    - \* Database
  - Priority:
    - \* P0: Needs to be addressed this week
    - \* P1: Needs to be addressed this month
    - \* P2: Will be addressed whenever there is no higher priority items available
  - Issues will be prioritized on a bi-weekly basis during scrum meetings

## 5 Proof of Concept Demonstration Plan

What is the main risk, or risks, for the success of your project? What will you demonstrate during your proof of concept demonstration to convince yourself that you will be able to overcome this risk?

## 6 Technology

- Languages: JavaScript/TypeScript
- Frontend Framework: Angular
- Backend Framework: Node.js / Express

- Testing:
  - Backend: Jest
  - Frontend: Jasmine
  - End-to-End: TestCafe
- Code Coverage: Included with test frameworks
- Github Actions CI
  - Auto build and test new pull requests
  - Auto Linting
  - Auto Formatting
- Performance Testing:
  - Backend: Postman Performance Testing
  - Frontend: Chrome Dev Tools Performance Tester
- Database: NoSQL Database (MongoDB)
- Deployment: Amazon Web Services (AWS)
- Libraries / Tools
  - Web Sockets: for real time connections
  - Auth0: for authentication identity management
  - HTTP: Endpoints for CRUD operations
- Tools you will likely be using?

## 7 Coding Standard

- Linter: ESLint
- Code formatter: Prettier
- The [Airbnb style guide](#) will be enforced during code review for all back-end code
- The [official style guide](#) will be enforced during code review for all front-end code

## 8 Project Scheduling

Major milestones will be placed onto deadlines. Each tasks will be assigned bi-weekly at the scrum meetings.