Sprint Plan for Mission 3: Turners Car Insurance Project

### **Team Members**

* **Project Coordinator and QA Specialist:** [Your Name]
* **Frontend Developer and UX/UI Designer:** John
* **Backend Developer and API Specialist:** Tajul

### **Sprint Goal**

Complete initial frontend and backend setup, integrate AI API, and start developing key functionalities.

### **Sprint Duration**

**Week 1:** Planning and Initial Development. **Week 2:** Development and Testing. **Week 3:** Final Development, Presentation, and Submission.

### **Week 1: Planning and Initial Development**

#### **Project Coordinator**

* **Organize the Kickoff Meeting**
  + Schedule the meeting
  + Prepare meeting agenda
  + Conduct the meeting
  + Document meeting notes and action items
* **Set Up JIRA Board**
  + Create the project in JIRA
  + Define and create tasks and subtasks
  + Assign tasks to team members
  + Set deadlines and priorities
* **Start Creating Test Plans**
  + Outline testing strategy
  + Identify key areas to test
  + Develop initial test cases

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#### **Frontend Developer and UX/UI Designer (John)**

* **Create Wireframes and Prototypes**
  + Draft initial wireframes using Figma (Due: Mid Week 1)
  + Review and iterate on wireframes based on feedback (Due: End of Week 1)
  + Finalize prototypes
* **Set Up Frontend Framework**
  + Choose frontend technologies (Due: Mid Week 1)
  + Set up project structure (Due: End of Week 1)
  + Implement basic layout and components

#### **Backend Developer and API Specialist (Tajul)**

* **Set Up Backend Environment**
  + Choose backend technologies (Due: Mid Week 1)
  + Set up project structure (Due: End of Week 1)
  + Implement basic API endpoints
* **Integrate Generative AI API**
  + Research API documentation (Due: Mid Week 1)
  + Implement API integration (Due: End of Week 1)
  + Test API functionality

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#### **Mob Programming Sessions**

* **Initial Setup (Monday-Wednesday)**
  + Schedule: Daily 1-hour session
  + Focus: Setting up project structure, choosing technologies, and initial implementation.
  + **Driver Rotation:** Rotate driver role every 30 minutes.
* **Wireframes and Backend Setup (Thursday-Friday)**
  + Schedule: Daily 1-hour session
  + Focus: Finalizing wireframes and setting up backend environment.
  + **Driver Rotation:** Rotate driver role every 30 minutes.

### **Week 2: Development and Testing**

#### **Project Coordinator and QA Specialist (You)**

* **Facilitate Daily Standups**
  + Schedule and run daily standup meetings
  + Track progress and address blockers
* **Develop and Execute Test Plans**
  + Create detailed test cases
  + Perform unit testing
  + Conduct integration testing
  + Document and fix bugs

#### **Frontend Developer and UX/UI Designer (John)**

* **Continue Frontend Development**
  + Implement UI components (Due: Early Week 2)
  + Ensure responsiveness and interactivity (Due: Mid Week 2)
  + Conduct usability testing (Due: End of Week 2)

#### **Backend Developer and API Specialist (Tajul)**

* **Continue Backend Development**
  + Develop additional API endpoints (Due: Early Week 2)
  + Implement database management (Due: Mid Week 2)
  + Ensure secure data handling (Due: End of Week 2)

#### **Mob Programming Sessions**

* **Frontend and Backend Development (Monday-Wednesday)**
  + Schedule: Daily 1-hour session
  + Focus: Developing key functionalities, integrating frontend and backend.
  + **Driver Rotation:** Rotate driver role every 30 minutes.
* **AI Integration (Thursday-Friday)**
  + Schedule: Daily 1-hour session
  + Focus: Implementing and testing the AI integration.
  + **Driver Rotation:** Rotate driver role every 30 minutes.
  + **Roles:** Each member will get a chance to work on the AI integration, ensuring everyone gains experience with this key feature.

### **Week 3: Final Development, Presentation, and Submission**

#### **Project Coordinator and QA Specialist (You)**

* **Conduct Final Testing**
  + Perform thorough testing (Due: Mid Week 3)
  + Ensure all bugs are fixed (Due: End of Week 3)
  + Document final test results
* **Compile and Submit Project Materials**
  + Compile all documentation (Due: End of Week 3)
  + Review and finalize documentation (Due: End of Week 3)
  + Submit project materials (Due: End of Week 3)

#### **Frontend Developer and UX/UI Designer (John)**

* **Make Final Design Adjustments**
  + Gather final feedback (Due: Early Week 3)
  + Implement necessary changes (Due: Mid Week 3)
  + Ensure design consistency (Due: End of Week 3)
* **Prepare Presentation**
  + Create slides and materials to explain the design and frontend development process (Due: End of Week 3)
  + Prepare to demonstrate the frontend during the presentation (Due: End of Week 3)

#### **Backend Developer and API Specialist (Tajul)**

* **Finalize Backend Functionalities**
  + Ensure all endpoints are functional (Due: Early Week 3)
  + Conduct final testing of backend (Due: Mid Week 3)
  + Optimize performance (Due: End of Week 3)
* **Prepare Presentation**
  + Create slides and materials to explain the backend development process and API integration (Due: End of Week 3)
  + Prepare to demonstrate the backend during the presentation (Due: End of Week 3)

#### **Mob Programming Sessions**

* **Final Adjustments and Testing (Monday-Wednesday)**
  + Schedule: Daily 2-hour session
  + Focus: Making final adjustments, integrating all components, and thorough testing.
  + **Driver Rotation:** Rotate driver role every 30 minutes.
* **Presentation Preparation (Thursday)**
  + Schedule: Daily 2-hour session
  + Focus: Preparing and rehearsing the presentation.
  + **Driver Rotation:** Rotate driver role every 30 minutes.

### **Git Workflow**

* **Daily Pushes:**
  + Each team member pushes their work at least once a day.
  + Pull the latest changes from Git at the start of each work session.
* **After Major Changes:**
  + Push your work after completing significant tasks or features.
* **Before and After Meetings:**
  + Push the latest changes before any scheduled team meetings.
  + Push the updated work after making discussed changes.

### **Daily Standups**

* **Schedule:** 10 minutes each day at a fixed time.
* **Structure:**
  + Each member shares what they worked on yesterday, what they will work on today, and any blockers they are facing.
* **Follow-Up:**
  + Document any blockers or issues raised during the standup.
  + Follow up with team members to help resolve any issues.