

4.1 SDP Plan Introduction

The application aims to simplify complex financial planning tasks by providing users with a unified experience, integrating diverse functionalities into a single platform. The development activities will include requirements gathering, system design, implementation of the four modules, integration of APIs, testing, and deployment. Key milestones include completion of the requirements analysis by Week 5, module implementation by Week 12, and final testing and deployment by Week 15.

4.1.1 Project Deliverables

- **Requirements Specification Document** (Due Week 5): Detailed description of the application's features and functionalities.
- **Module Implementations** (Due Week 12):
 - **Real Estate Planning Module**: Completed with Zillow and ArcGIS API integration.
 - **Salary Projection Module**: Completed with Indeed API integration.
 - **Budgeting Tools**: Fully functional with user profile management.
 - **Financial Advising Module**: Personalized advice generation features implemented.
- **Testing Report** (Due Week 12): Results of unit and integration testing.
- **Final Deployment** (Due Week 15): Fully functional application deployed and demonstrated.

4.2 Project Resources

4.2.1 Hardware Resources

- **Development Machines**:
 - Processor: Intel i5 or equivalent
 - RAM: 16 GB minimum
 - Storage: 256 GB SSD
- **Server** (for deployment):
 - Processor: Intel Xeon
 - RAM: 32 GB
 - Storage: 1 TB HDD
- **Testing Devices**: Multiple browsers on various devices (laptops, tablets, mobile phones) for compatibility testing.

4.2.2 Software Resources

- **Development Tools**:

- **Frontend Framework:** React (latest version)
- **Build Tool:** Vite
- **Backend Language:** Python
- **Database:** Firebase
- **Development Environment:**
 - IDE: Visual Studio Code (with recommended extensions for React and Node.js)
 - Version Control: Git (GitHub for repository hosting)
- **APIs:**
 - Zillow API (for real estate data)
 - Indeed API (for salary projections)
 - ArcGIS API for JavaScript (for mapping)

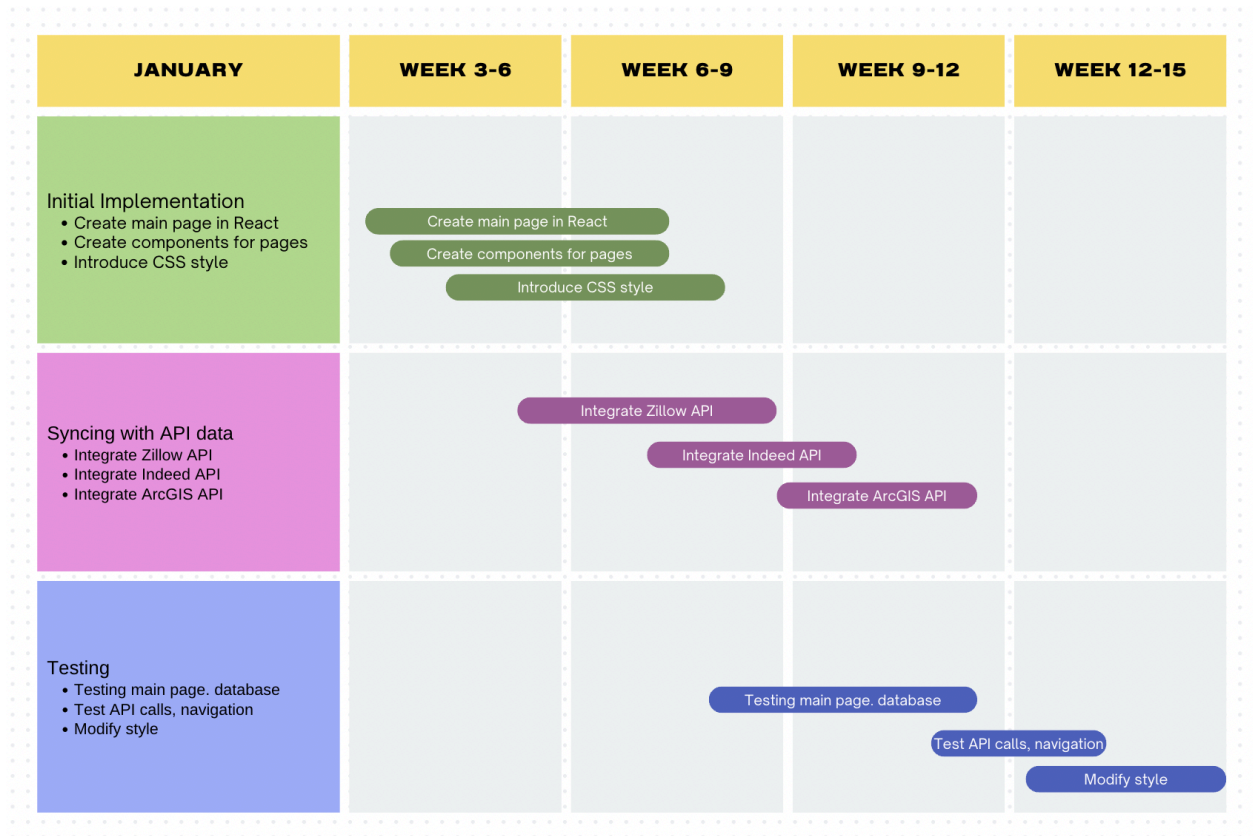
4.3 Project Organization/Human Resources

The project is structured around four major functions corresponding to the application modules. Each function will be managed and developed sequentially to ensure quality and integration.

Functions and Responsibilities

- **Real Estate Planning:** Responsible for implementing the Zillow and ArcGIS API integrations, creating interactive maps, and managing real estate data visualization.
- **Salary Projection:** Focused on integrating the Indeed API, developing salary insights, and projecting future earnings based on user inputs.
- **Budgeting Tools:** Tasked with building the income and expense tracking features, providing user profile management, and offering personalized budgeting advice.
- **Financial Advising:** Responsible for developing tailored financial advice features and implementing data visualization tools for presenting financial insights.

4.4 Schedule



4.4.2 Task/Resource Table

Task	Resources Required	Person
Requirements Analysis	Development Machine, IDE	All members
Design Document	Development Machine, IDE	All members
Real Estate Planning Module	Development Machine, Zillow API,	All members
Salary Projection Module	Development Machine, Indeed API	All members
Budgeting Tools	Development Machine, ArcGIS API	All members
Financial Advising Module	Development Machine, Data Visualization Tool	All members

Integration and Testing	All Modules, Testing Devices	All members
Final Deployment	Server, Development Machine	Gaurav Basu