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**WalletWise Team**

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**WalletWise**  
**Software Development Plan**

**Version 1.1**

WalletWise	Version: 1.1
Software Development Plan (Small Project)	Date: 03/May/24
SDP-WW	

# Revision History

Date	Version	Description	Author
08/Apr/24	1.0	First Version of Project Planning	WalletWise Team
03/May/24	1.1	Edit format and update content.	WalletWise Team

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# Software Development Plan

## 1. Introduction

Software Development Plan (SDP) provides a comprehensive overview of the development process for WalletWise project. It serves as a roadmap, outlining the project's goals, scope, methodology, resources, and timelines. It is the top-level plan generated to direct the development effort.

This document is intended for all stakeholders involved in the project, including developers, testers, project managers, and advisors. This plan functions as a key instrument for project managers to define the development schedule and resource allocation. It enables them to effectively track project progress against the established timeline and identify any necessary adjustments. The SDP serves as a crucial reference for team members. It provides them with a clear understanding of their individual tasks, deadlines, and dependencies on other project activities. This fosters effective collaboration and ensures everyone is working towards a common goal. This Software Development Plan (SDP) serves a critical role not only for the internal development team but also for the valuable input and guidance of our esteemed advisors. This fosters a collaborative environment where advisors can contribute their expertise effectively.

This Software Development Plan contains the following information:

- **Project Overview:** This section lays the foundation for the project by defining its purpose, scope, objectives, and expected deliverables.
- **Project Organization:** This section outlines the team structure, detailing roles and responsibilities of each member.
- **Management Process:** This section dives into how the project will be managed, encompassing estimates, the overall plan with phases and timelines, resource allocation, and control mechanisms for monitoring progress and addressing risks.

## 2. Project Overview

### 2.1 Project Purpose, Scope, and Objectives

- This project sets out to develop WalletWise, a fresh personal finance management application designed to empower users with effortless control over their spending habits. WalletWise will harness the power of technology to usher in a paradigm shift in personal finance management, equipping users with the tools and insights necessary to make informed financial decisions and pursue their financial aspirations.
- WalletWise will offer a user-friendly interface and intuitive functionalities, allowing users to seamlessly track and manage their finances on a day-to-day basis. The application will be engineered to ensure smooth installation and operation on Android devices, minimizing any potential technical hurdles for users.

### 2.2 Assumptions and Constraints

- Zero-budget project.
- The project will follow a fixed schedule of 11 weeks, broken down into iterative development cycles known as sprints. Each sprint will have a duration of 2 weeks.
- Project has 5 people and 2 advisors, there will be no more people added during the project.
- Target platform is Android mobile devices (9.0 and above).

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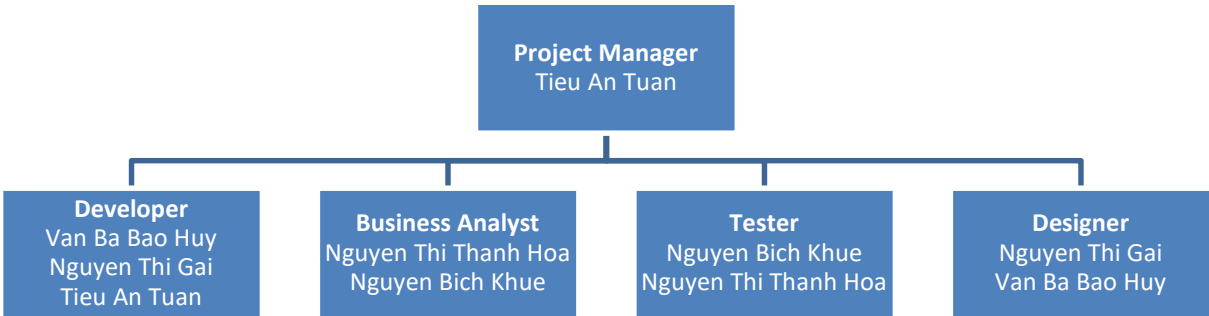
- Project team consists of Project Leader (Project Manager), Business Analyst (BA), Designer, Implementer, Tester.

### 2.3 Project Deliverables

Sprint	Deliverables	Due date
Sprint 1	Software Development Plan, Vision Document	12/04/2024
Sprint 2	Use-case Document, Software Architecture Document	25/04/2024
Sprint 3	User Interface prototype	09/05/2024
Sprint 4	Test plan, test cases and test report.	23/05/2024
Sprint 5	Product release	06/06/2024

### 3. Project Organization

#### 3.1 Organizational Structure



#### 3.2 Roles and Responsibilities

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Role	Responsibilities
<b>Project Manager</b> Tieu An Tuan	Write project plan including task assignment, coordinating meetings, resolving issues, analyzing risks throughout the project development process, and acting as the project's contact point.
<b>Business Analyst</b> Nguyen Thi Thanh Hoa Nguyen Bich Khue	Receive requests from customers (possibly through customers interviews), take notes, and analyze the requirements. Communicate with team members about the requirements and coordinate the review of requirements. Write project use-cases specification documents.
<b>Developer</b> Van Ba Bao Huy Nguyen Thi Gai Tieu An Tuan	Write source code to implement databases for the system, build data processing systems for the application, install interfaces for the application based on the design blueprint, develop system functionalities. Perform unit tests and review source code.
<b>Tester</b> Nguyen Bich Khue Nguyen Thi Thanh Hoa	Write a test plan and test cases. Perform system testing, evaluate output results, and report detected errors at each stage, highlighting potential risks in the product.
<b>Designer</b> Nguyen Thi Gai Van Ba Bao Huy	Develop system components and databases, design user interface, and write Software Architecture Document.

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## 4. Management Process

### 4.1 Project Estimates

The project will be released by the beginning of June 2024. The project will be estimated again when releasing the first version of the application.

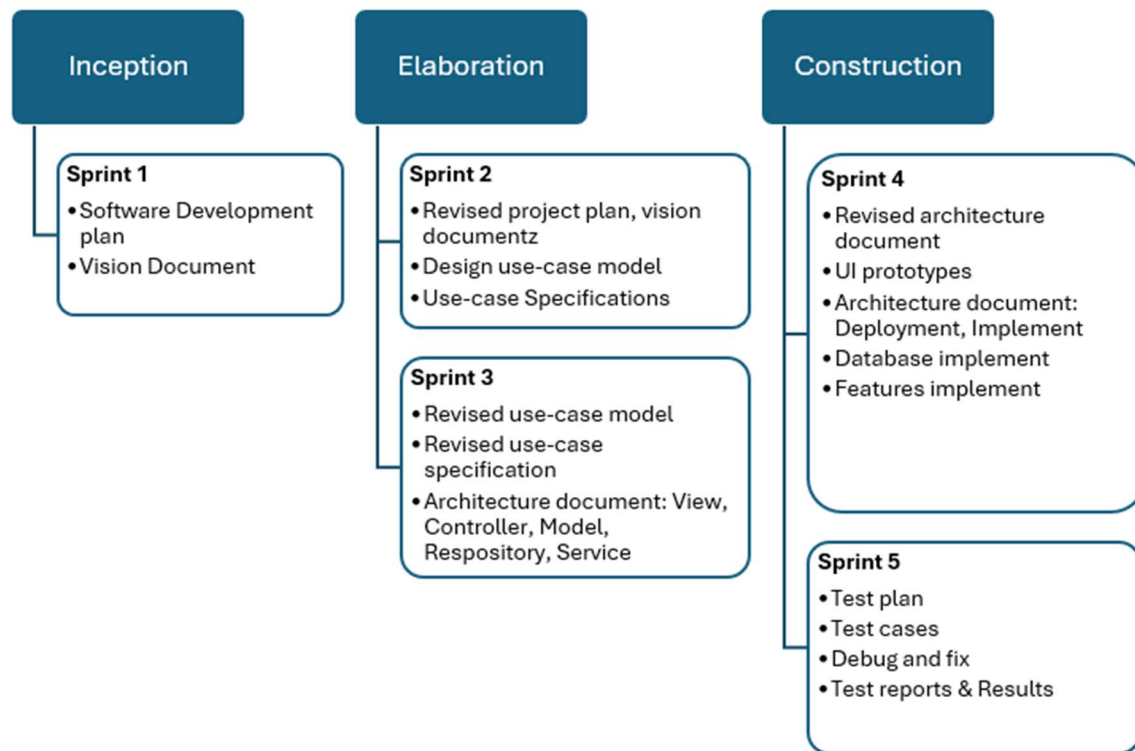
### 4.2 Project Plan

#### 4.2.1 Phase and Iteration Plan

Phase	Overall Objectives	No. of sprint	Start date	End date
<b>Inception</b>	The Inception Phase will define the product requirements, establish the business case for the system and identify the feasibility and potential benefits of the proposed system. The software development plan and vision document will be published.	1	30/3/2024	12/4/2024
<b>Elaboration</b>	Developing an understanding of the problem domain and the system architecture involves conducting detailed analysis of the project requirements and defining the necessary system architecture. During this phase, the project architecture will be outlined to address the identified requirements.	2	13/4/2024	10/5/2024
<b>Construction</b>	Focusing on designing, programming, and testing the software system, with an emphasis on building system components and features through coding and rigorous testing procedures.	2	11/5/2024	7/6/2024

Phase	Iteration	Associated Milestones
<b>Inception</b>	Defines business model, product requirements, project plan, and vision document.	SDP & Vision document
<b>Elaboration</b>	Completes analysis and design for all use cases.	Use-case specifications
	Develops architectural prototype and defines class diagram. Searchs for a high-accuracy model or API suitable for the application.	Software Architectural Prototype
<b>Construction</b>	Complete the UI prototype for development.	UI design prototype
	Test the AI model or API.	Test AI report
	Implements and tests use cases, adapting based on feedback. Develops initial system.	Demo application & Test report
	Implements & Test remaining use cases, incorporates enhancements, and addresses defects from initial release. Develops full system.	Final product

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#### 4.2.2 Releases

No	Description	Sprint	Date
1	Test build for main features.	4	18/05/2024
2	Release MVP version	5	28/05/2024
3	Release beta version	5	05/06/2024



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### 4.2.3 Project Schedule

WBS	TASK DESCRIPTION	SPRINT 1													
		WEEK 1 (30/3-5/4)							WEEK 2 (6/4-12/4)						
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri
0	PAO submission														
0.1	Proposal														
	<b>Inception</b>														
1	<b>Sprint 1</b>														
1.1	Software Development plan														
1.1.1	Introduction: Purpose, Scope, Overview														
1.1.2	Project Overview														
1.1.3	Project Organization														
1.1.4	Project Estimates, Plan														
1.1.5	Project Monitoring and Control														
1.1.6	Gantt Chart														
1.2	Vision Document														
1.2.1	Introduction and positioning														
1.2.2	User Descriptions														
1.2.3	Product Features														
1.2.4	Non-Functional Requirements														

WBS	TASK DESCRIPTION	SPRINT 2														SPRINT 3													
		WEEK 3 (13/4-19/4)							WEEK 4 (20/4-26/4)							WEEK 5 (27/4-3/5)							WEEK 6 (4/5-10/5)						
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri
	Elaboration																												
2	Sprint 2																												
2.1	Revised project plan, vision document																												
2.2	Design use-case model																												
2.3	Use-case Specifications																												
2.3.1	Use-case from 1 -> 4																												
2.3.2	Use-case from 5 -> 8																												
2.3.3	Use-case from 9 -> 12																												
2.3.4	Use-case from 13 -> 16																												
3	Sprint 3																												
3.1	Revised use-case model																												
3.2	Revised use-case specification																												
3.3	Architecture document																												
3.3.1	Architecture document: View																												
3.3.2	Architecture document: Controller																												
3.3.3	Architecture document: Model																												
3.3.4	Architecture document: Repository																												
3.3.5	Architecture document: Service																												

WBS	TASK DESCRIPTION	SPRINT 4														SPRINT 5												
		WEEK 7 (11/5-17/5)							WEEK 8 (18/5-24/5)							WEEK 9 (25/5-31/5)							WEEK 10 (1/5-7/6)					
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu
	Construction																											
4	Sprint 4																											
4.1	Revised architecture document																											
4.2	UI prototypes																											
4.3	Architecture document: Deployment																											
4.4	Architecture document: Implementation view																											
4.5	Database implement																											
4.6	Features implement																											
5	Sprint 5																											
5.1	Test plan																											
5.2	Test cases																											
5.3	Debug and fix																											
5.4	Test reports & Results																											

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### 4.3 Project Monitoring and Control

#### 4.3.1 Reporting

- Weekly reporting.
- Informal chats.

#### 4.3.2 Risk Management

Risk ID	Risk Description	Probability	Impact	Risk Exposure	Priority	Mitigation Strategy or Contingency Plan
				= <i>Probability</i> <i>* Impact</i>		

#### 4.3.3 Configuration Management

- Google Drive for storing and sharing documents and files.
- Github for managing source code and related files.