

BOOKEE
Software Development Plan (Small Project)
Version 2.0

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Revision History

Date	Version	Description	Author
29/10/2023	1.0	First version with the information we have at sprint 1	All team
11/11/2023	2.0	Update diagram in 3.1 Update blank sections. Move Gantt charts from 4.2.1 to 4.2.3	HBNQuynh

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Software Development Plan (Small Project)

1. Introduction

1.1 Purpose

The purpose of the Software Development Plan is to gather all information necessary to control the project. It describes the approach to the development of the software and is the top-level plan generated and used by managers to direct the development effort.

The following people use the Software Development Plan:

- The **project manager** uses it to plan the project schedule and resource needs, and to track progress against the schedule.
- **Project team members** use it to understand what they need to do, when they need to do it, and what other activities they are dependent upon.

1.2 Scope

This Software Development Plan describes the overall plan to be used by the BOOKEE project, including deployment of the product. The details of the individual iterations will be described in the Iteration Plans. The plans as outlined in this document are based upon the product requirements as defined in the Vision Document.

1.3 Overview

This Software Development Plan contains the following information:

- Project Overview — provides a description of the project's purpose, scope, and objectives. It also defines the deliverables that the project is expected to deliver.
- Project Organization — describes the organizational structure of the project team.

2. Project Overview

2.1 Project Purpose, Scope, and Objectives

Bookee is an e-commerce platform specialized in buying and selling e-books in pdf formats. At BOOKEE, readers can easily search, shop, and share their passion for books.

2.2 Assumptions and Constraints

Time duration: 11 weeks (5 sprints)
 Staff: 5 members of the group
 Equipment: Laptop, Figma
 Budget: 0\$
 Product type: Web application

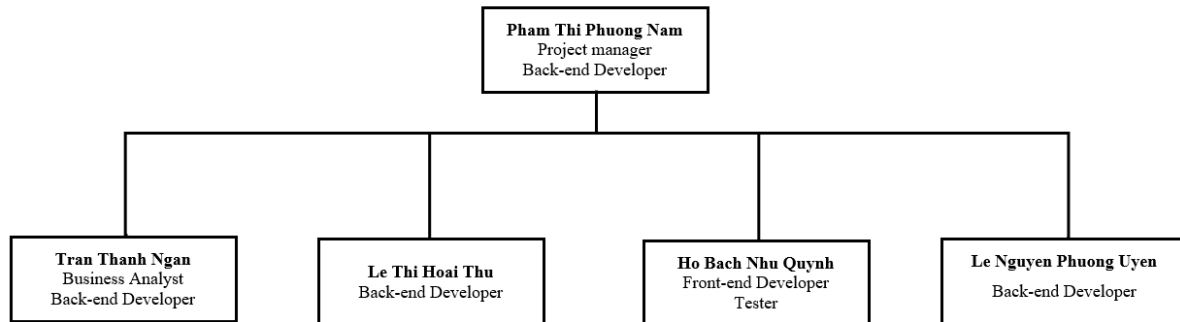
2.3 Project Deliverables

Deliverables for each project phase are identified in the Development Case & delivered towards the end of the sprint, as specified in section 4.2.4 Project Schedule.

3. Project Organization

3.1 Organizational Structure

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21127364 – Pham Thi Phuong Nam

Project manager, Back-end Developer

21127115 – Tran Thanh Ngan

Business Analyst, Back-end Developer

21127176 – Le Thi Hoai Thu

Back-end Developer

21127412 – Ho Bach Nhu Quynh

Tester, Front-end Developer

21127476 – Le Nguyen Phuong Uyen

Front-end Developer

3.2 Roles and Responsibilities

Person	Role
Pham Thi Phuong Nam	Responsible for assisting the Project Manager role in planning/scheduling activities and assisting the Change Control Manager role in controlling changes to artifacts; support for other roles if needed.
Tran Thanh Ngan	Responsible for databases, back-end logic, application programming interface (APIs), architecture, and servers
Le Thi Hoai Thu	Responsible for databases, back-end logic, application programming interface (APIs), architecture, and servers
Ho Bach Nhu Quynh	Responsible for designing and implementing UI, testing the final product
Le Nguyen Phuong Uyen	Responsible for designing and implementing UI

4. Management Process

4.1 Project Estimates

Time: 10 weeks

- Defines business model, product requirements, software development plan and business cases (2weeks)
- Learning and drawing Use-case Diagram, analysis, design prototype architecture (2weeks)
- Design Database and class Diagram. Implementation and test prototype architecture (2weeks)
- Implement UI, functions of website, database (2weeks)
- Implement and test use cases, detect and fix errors (2weeks)

Cost: 0 VND

The re-estimation will be occur if we have any changes to this section.

4.2 Project Plan

4.2.1 Phase Plan

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Phase	Iteration	Description
Inception	Sprint 1 (16/10/2023 – 29/10/2023)	Defines business model, product requirements, software development plan and business cases
Elaboration	Sprint 2 (30/10/2023 – 13/11/2023)	Learning and drawing Use-case Diagram, analysis, design prototype architecture.
	Sprint 3 (14/11/2023 – 26/11/2023)	Design Database and class Diagram. Implementation and test prototype architecture.
Construction	Sprint 4 (27/11/2023 – 10/12/2023)	Implement UI, functions of website, database.
	Sprint 5 (11/12/2023 – 24/12/2023)	Implement and test use cases, detect and fix errors.

4.2.2 Releases

Release must contain as a minimum the basic functionality as listed below:

- Admin's functions
- Login
- Register for user
- Authentication for users
- Show out ebooks for website
- Comment and evaluate ebooks
- Buy ebooks

4.2.3 Project Schedule

Phase	Iteration	Tasks	Assignee	Start Date	End Date
Inception	Sprint 1	Training Github, HTML, CSS	All team	18/10/2023	21/10/2023
		Training Figma	LNPUyen, HBNQuynh	19/10/2023	29/10/2023
		Training Javascript part 1	everyone	19/10/2023	29/10/2023
		Writing project plan part 1 Vision part 1, 2	LTHThu	22/10/2023	28/10/2023
		Writing project plan part 2 Vision part 3, 6	PTPNam	22/10/2023	28/10/2023
		Writing project plan part 3, 4.2.1 Vision part 3, 6	HBNQuynh	22/10/2023	28/10/2023
		Writing project plan from part 4.2.2 to 4.2.5 Vision part 4,	LNPUyen	22/10/2023	28/10/2023
		Writing project plan from part 4.3.1 to 4.3.3 Vision part 5	TTNgan	22/10/2023	28/10/2023
		Writing weekly report	LNPUyen	18/10/2023, 27/10/2023	18/10/2023, 27/10/2023

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Elaboration	Sprint 2	Training Javascript part 2, Learn Use-case model and specification,	All team	30/10/2023	05/11/2023
		Update vision document, project plan	HBNQuynh	09/11/2023	11/11/2023
		Draw Use-case model	HBNQuynh	31/10/2023	04/11/2023
		Implement to design UI	HBNQuynh, LNPUyen	02/11/2023	12/11/2023
		Use-case specification document	All team	01/11/2022	12/11/2022
		Learning to design database	TTNgan, PTPNam	30/10/2023	12/11/2023
		Writing weekly report	LNPUyen	01/11/2023	11/11/2023
	Sprint 3	Design database	TTNgan, PTPNam	13/11/2023	26/11/2023
		Learn and design class diagram	HBNQuynh, LNPUyen	19/11/2023	26/11/2023
		Software Architecture Document (SAD)	All team	15/11/2023	25/11/2023
		Update use-case specification document	LTHThu	16/11/2023	26/11/2023
		Writing weekly report	LNPUyen	15/11/2023	24/11/2023
Construction	Sprint 4	Code UI	HBNQuynh, LNPUyen	27/11/2023	08/12/2023
		Implement functions of project, Fix errors of projects	All team	27/12/2023	10/12/2023
		Update Software Architecture Document	TTNgan, PTPNam, LTHThu	28/11/2023	02/12/2023
		Writing weekly report	LNPUyen	29/11/2023, 08/12/2023	29/11/2023, 08/12/2023
	Sprint 5	Test plan	HBNQuynh	11/12/2023	14/12/2023
		Test case		05/12/2023	24/12/2023
		Complete functions of project, Project Presentation	All team	11/12/2023	17/12/2023
		Writing weekly report	LNPUyen	13/12/2023, 22/12/2023	13/12/2023, 22/12/2023

Gantt chart:

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Sprint1 / PA1

TASK	WEEK 1 (16/10 - 22/10)						WEEK 2 (23/10 - 29/10)								
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Training Github, HTML, CSS															
Training Figma															
Training Javascript															
Write project plan															
Write vision document															
Write weekly report															

Sprint2 / PA2

TASK	WEEK 1 (30/10 - 5/11)							WEEK 2 (6/11 - 12/11)						
	30	31	1	2	3	4	5	6	7	8	9	10	11	12
Training Javascript, Learn Use-case model and specification,														
Draw Use-case model														
Design UI for each feature														
Write use-case specification document														
Learning to design database														
Write weekly report														
Update vision document, project plan														

Sprint3 / PA3

TASK	WEEK 1 (13/11 - 19/11)							WEEK 2 (20/11 - 26/11)						
	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Design database														
Software Architecture Document (SAD)														
Design class diagram														
Implement UI prototype														
Update use-case specification document														
Writing weekly report														

Sprint4 / PA4

TASK	WEEK 1 (27/11 - 3/12)							WEEK 2 (4/12 - 10/12)						
	27	28	29	30	1	2	3	4	5	6	7	8	9	10
Implement UI														
Implement key features and database														
Revise Software Architecture Document														
Writing weekly report														

Sprint5 / PA5

TASK	WEEK 1 (11/12 - 17/12)							WEEK 2 (18/12 - 24/12)						
	11	12	13	14	5	16	17	18	19	20	21	22	23	24
Write test plan														
Write test case report														
Complete all features of project														
Run test case and fix bug														
Make presentation slide														
Writing weekly report														

4.2.4 Project Resourcing

The number of staffs: 5

- 21127364 – **Pham Thi Phuong Nam** Project manager, Back-end Developer

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- 21127176 – **Le Thi Hoai Thu** *Back-end Developer*
- 21127476 – **Le Nguyen Phuong Uyen** *Front-end Developer*
- 21127412 – **Ho Bach Nhu Quynh** *Tester, Front-end Developer*
- 21127115 – **Tran Thanh Ngan** *Business Analyst, Back-end Developer*

Specific requirements: Training JavaScript, HTML, CSS, Figma. (End Date: 8/11/2023)

4.3 Project Monitoring and Control

4.3.1 Requirements Management

Phase	Description	Duration
Inception	<ul style="list-style-type: none"> Identify and analyze customer's requirements. Make a plan for the project, the goals and risks management plan are also made. Estimate the budget and time. 	18/10/2023 - 29/10/2023
Elaboration	<ul style="list-style-type: none"> Planning and modeling. A detailed evaluation and development plan is carried out and diminishes the risks. 	30/10/2023 - 26/11/2023
Construction	<ul style="list-style-type: none"> Implementation. The project is developed and completed. Testing is done. 	27/11/2023 - 24/12/2023
Transition	<ul style="list-style-type: none"> Deployment. The project is finally released to the customer. 	will be announce after sprint 4

4.3.2 Reporting and Measurement

Updated cost and schedule estimates, and metrics summary reports, will be generated at the end of each iteration.

The Minimal Set of Metrics, as described in the RUP Guidelines: Metrics, will be gathered on a weekly basis. These include:

- Earned value for completed tasks. This is used to re-estimate the schedule and budget for the remainder of the project, and/or to identify the need for scope changes.
- Total defects open and closed – shown as a trend graph. This is used to help estimate the effort remaining to correct defects.
- Acceptance test cases passing – shown as a trend graph.
- This is used to demonstrate progress to stakeholders. In addition, overall costs will be monitored against the project budget.

4.3.3 Risk Management

Risk Ranking (High, Medium, Low)	Risk Description and Impact	Mitigation Strategy and/or Contingency Plan
High	Requirement change	Discuss about requirements and review the plan carefully by each member to ensure everyone understood.
Medium	New (unexpected) technology to learn	Find out about which languages or technologies should be learned and used for developing the project.

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Medium	Some features were not done/ completed on time	Regularly monitor progress to ensure features stay on track, avoiding undone or incompletd situations may occur.
Low	Team member's task was overdue	Strictly monitor progress of each member's assigned tasks.

4.3.4 Configuration Management

- Google drive for storing and sharing documents and files.
- Github is used to store source code and documentation.
- Jira for tracking work progress.
- Slack: used for discussions and interactions among group members