
GROUP 1

Generic eBook Management Application - GEMA
Software Development Plan
Version 1.0

Generic eBook Management Application - GEMA	Version: <1.0>
Software Development Plan	Date: 22/10/2021

Revision History

Date	Version	Description	Author
22/10/2021	1.0	Initial draft	Tran Kien Quoc

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Software Development Plan

1. Introduction

The purpose of this document is to provide an overview of the structure of the development team, planning, schedule of the project, and other auxiliaries.

2. Project Overview

2.1 Project Purpose, Scope, and Objectives

The purpose of this project is to provide a convenient way to easily manage books, notes and documents on a personal computer.

2.2 Assumptions and Constraints

- Schedule 16 weeks
- The project has zero-budget
- Project has 4 people, there will be no more added during the project
- Has to be available in time before the end of this semester

2.3 Project Deliverables

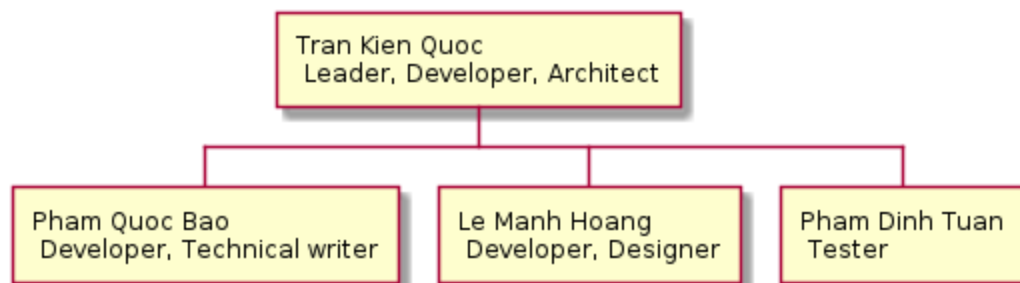
Deliverables following each sprints:

Sprint	Deliverables
Sprint 01	Vision document, software development plan
Sprint 02	Use cases Document
Sprint 03	Architecture document
Sprint 04	Initial release
Sprint 05	Final release

A release consists of the source code, binary for Windows, binary for Linux.

3. Project Organization

3.1 Organizational Structure



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3.2 Roles and Responsibilities

Person	Role
Tran Kien Quoc	Leader, Developer, Architect: Planning out the class diagram and architecture of the software.
Pham Quoc Bao	Developer: Writing code Technical writer: helping the team leader with writing the reports.
Le Manh Hoang	Developer: Writing code Designer: drawing assets for the program
Phan Dinh Tuan	Tester: Testing and reporting bugs

4. Management Process

4.1 Project Estimates

The Inception phase of the project will take 3 weeks. Refer to the tables below for more details.

4.2 Project Plan

4.2.1 Phase and Iteration Plan

Phase	No. of Iterations	Start	End
Inception Phase	1	18/10/2021	1/11/2021
Elaboration Phase	2	2/11/2021	24/11/2021
Construction Phase	3	25/11/2021	14/12/2021
Transition Phase	1	15/12/2021	25/12/2021

Phase	Iteration	Description	Associated Milestones	Risks Addressed
Inception	2	Preliminary Iteration		
Elaboration	1		Class diagrams	

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	1		Architecture prototypes	
Construction	1	Develop initial	Key features	
	2	Develop final release	Additional features	
Transition	1	Release	Software release	

4.2.2 Releases

Plan	Date
Test build 1	11/23/2021
Test build 2	30/11/2021
Test build 3	7/12/2021
Demo	11/12/2021
Test build 4	9/12/2021
Release	25/12/2021

4.2.3 Project Schedule

The colors specify the team responsible for the tasks:

Teams	Members
Architect	Tran Kien Quoc
Developers	Tran Kien Quoc, Pham Quoc Bao, Le Manh Hoang
Designers	Le Manh Hoang
Testers	Phan Dinh Tuan
Entire group	All members of the group

Task	Start	End
INCEPTION	18/10/2021	30/10/2021
vision document, software development plan	18/10/2021	30/10/2021
ELABORATION	1/11/2021	13/11/2021

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Class diagram	1/11/2021	8/11/2021
Use cases	9/11/2021	13/11/2021
CONSTRUCTION	14/11/2021	25/12/2021
Basic GUI scratch with QT	14/11/2021	15/11/2021
Assets (icons, ...)	14/11/2021	15/11/2021
High priority features	16/11/2021	23/11/2021
Implement SQLITE Database	16/11/2021	16/11/2021
Implement Qt books view GUI	17/11/2021	18/11/2021
Implement book adding and deletion	19/11/2021	22/11/2021
Testing 1	23/11/2021	23/11/2021
Bug fixes and Medium priority features	24/11/2021	29/11/2021
Implement networking, book downloader *	24/11/2021	29/11/2021
Cloud syncing, upload and download	24/11/2021	29/11/2021
Testing 2	30/11/2021	30/11/2021
Bug fixes and low priority features	1/12/2021	6/12/2021
Suggestion	1/12/2021	6/12/2021
METADATA editor	1/12/2021	6/12/2021
News fetcher	1/12/2021	6/12/2021
Bug reporter	1/12/2021	6/12/2021
Testing 3	7/12/2021	7/12/2021
Bug fixes and demo build	8/12/2021	10/12/2021
Testing 4	11/12/2021	11/12/2021
Bug fixes and final build	12/12/2021	18/12/2021
Reserve	19/12/2021	25/12/2021

*: Tasks can happen concurrently.

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4.3 Project Monitoring and Control

4.3.1 Reporting

- Weekly meeting reports
- Informat chats (Slack screenshots)
- Trello backlogs
- Software screenshots

4.3.2 Risk Management

Risk ID	Risk Description	Probability	Impact	Priority	Mitigation Strategy or Contingency Plan
1	Incompetency in programming of the leader and group members	Medium	Very High	High	Organise training in meeting minutes
2	Group members not being familiar with source control.	High	High.	High	Testing group members in the use of Git and training. Or use an alternative method such as sending code to the leader to merge manually.

4.3.3 Configuration Management

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