
Group 01 - Manga Geeks

Free Manga Site
Software Development Plan (Small Project)
Version 1.0

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Revision History

Date	Version	Description	Author
24/10/2024	1.0	Fill out section 1, 2	Hung
27/10/2024	1.0	Fill out section 3	Bào
24/10/2024	1.0	Fill out section 4.1, 4.2	Nhân
27/10/2024	1.0	Fill out section 4.3	Lạc
10/11/2024	1.1	Minor fix in sprint 2 schedule	Nhân
13/11/2024	1.1	Add details for coding tasks in sprint 3, 4	Nhân
14/11/2024	1.1	Add new tasks in sprint 2	Nhân

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Software Development Plan (Small Project)

1. Introduction

1.1 Purpose

This *Software Development Plan* serves as a testifiable basis for the upcoming web application project. It describes how we approach the project, how the development process should play out, and provides a top-level outline for the project manager to better direct the team.

The following people use the *Software Development Plan*:

- **Project manager:** plans the project ahead and allocates resources, and to assess the progress of the project during meetings.
- **Designers:** can consider the user flow, what an average user would like to benefit from this application, and design the experience to be intuitive and enjoyable.
- **Developers:** see what needs to be done, what tech stack is going to be used and to prepare for, and have a basic plan to stick to during the development process.

1.2 Scope

This *Software Development Plan* describes the overall plan to be used by the “Free Manga Site” 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.

Project Estimates — describes the estimate, cost and the basic plan for the project.

Project Plan — describes in more detail what to do and who should do in the project in assignments across multiple weeks.

Project Monitoring and Control — describes details for basic management processes, such as requirements engineering, reporting and measurement, risk management and configuration management.

2. Project Overview

2.1 Project Purpose, Scope, and Objectives

The purpose of this project is to provide a forums-like platform for users to share their mangas, or non-original works they would like to share (of course, if they have permission to do so, as we do not support ripping off works as an ethical team).

“Free Manga Site” shall have a free-for-all experience, focusing on the sharing and community part. It is inspired by the following applications and, or websites such as Wattpad, Amazon Store, and Archive Of Our Own. Users may like their favorite authors, leave feedback or even publish and become a manga

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author themselves.

2.2 Assumptions and Constraints

Staff: this project is limited to four (4) people, with roles provided in the table below in the *Roles and Responsibilities* section.

Budget: this project is limited to the budget of four (4) university student's budget, up to a maximum of 400.000VND/month for expenses (licensing, hosting, testing, etc.). For more details, refer to the *Project Estimates* section.

Equipment: every member of the team has their own programming platforms (laptops, PCs) and their own favorite programming environments (Visual Studio Code, WebStorm, etc.).

Schedule: this project is due by December 15, 2024 by the earliest, as by the latest has not been decided.

2.3 Project Deliverables

The project will be expected to have:

- A functional website, hosted and accessible to every device with an Internet connection, by December 15th, 2024.
- Testing suites, with coverage at least up to 90%, by December 19th, 2024.
- Technical documentation for the designs, front end, and the back end, by December 19th, 2024.
- A report, assessing the progress throughout the project for each sprint, biweekly.

3. Project Organization

3.1 Organizational Structure

- Currently, based on the assignment of the project team leader, there are 4 people and 4 main tasks: Management, Design, Application Development.

- In which:

- Management: Monitor progress, resolve issues, coordinate between team members.
- Design: Design UI/UX
- Application Development: Develop and maintain the backend system, connecting frontend and backend.
- Testing: Create test plan and test cases, find potential bugs to fix

After completing the 3 tasks above, the team leader will summarize and evaluate the quality and progress of each assigned task in the group.

3.2 Roles and Responsibilities

Person	Role
Nguyễn Thành Nhân , Project Manager, Backend Developer	Team leader, monitor project's progress, assign tasks, design and develop the backend.
Lâm Quốc Bảo, Frontend Developer	Develop web user interface, convert UI/UX design into source code, ensure the interface is usable and operates properly on platforms.
Nguyễn Quốc Hưng, UI/UX Designer, Frontend Developer	Design UI, UX and work with Frontend Designer to complete the web interface. Develop web user interface, convert UI/UX

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	design into source code, ensure the interface is usable and operates properly on platforms.
Lâm Gia Lạc, UI/UX Designer, Tester	Design UI, UX and work with Frontend Designer to complete the web interface. Create test plans and test cases for other members to perform testing.

4. Management Process

4.1 Project Estimates

Schedule: this project starts on December 3rd, 2024, and as stated above, this project is due by December 15, 2024 by the earliest, as by the latest has not been decided.

Development cost estimate:

- Total hours of work: 224
- Pay per hour: 100.000 VND
- Total development cost: 22.400.000 VND

Hosting cost estimate: 100.000 VND/month

Other cost estimate (licensing, testing...): 400.000 VND/month

These costs will be re-estimated when the stakeholders have new requirements for the website.

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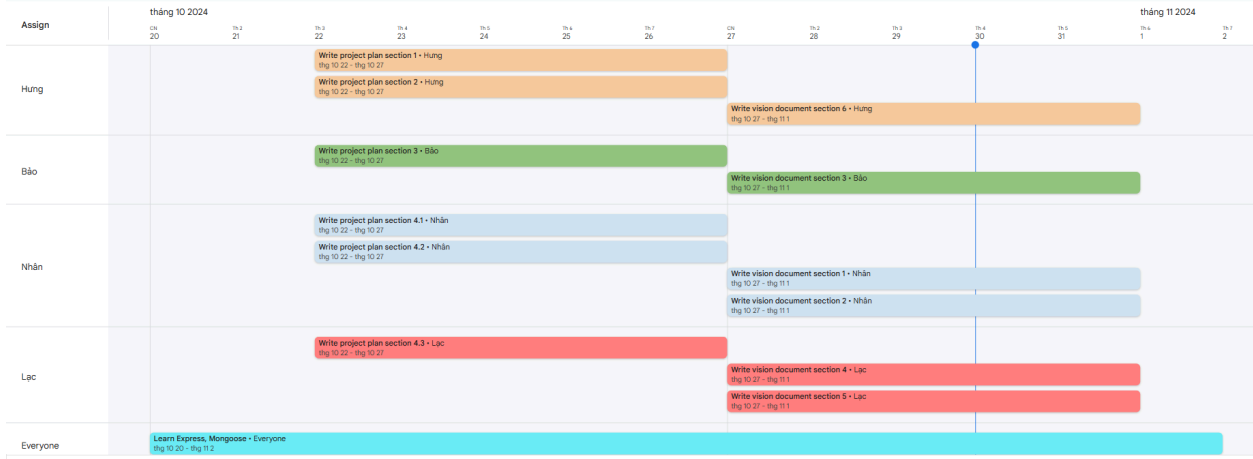
4.2 Project Plan

Sprint 1 - PA1

Duration: 20/10/2024 - 02/11/2024

Tasks:

	Start	End		
PA1	20/10/2024	02/11/2024		
Task	Assign	Start	Deadline	Status
Write project plan section 1	Hưng	22/10/2024	27/10/2024	Pending
Write project plan section 2	Hưng	22/10/2024	27/10/2024	Pending
Write project plan section 3	Bảo	22/10/2024	27/10/2024	Pending
Write project plan section 4.1	Nhân	22/10/2024	27/10/2024	Pending
Write project plan section 4.2	Nhân	22/10/2024	27/10/2024	Pending
Write project plan section 4.3	Lạc	22/10/2024	27/10/2024	Pending
Write vision document section 1	Nhân	27/10/2024	01/11/2024	Pending
Write vision document section 2	Nhân	27/10/2024	01/11/2024	Pending
Write vision document section 3	Bảo	27/10/2024	01/11/2024	Pending
Write vision document section 4	Lạc	27/10/2024	01/11/2024	Pending
Write vision document section 5	Lạc	27/10/2024	01/11/2024	Pending
Write vision document section 6	Hưng	27/10/2024	01/11/2024	Pending
Learn Express, Mongoose	Everyone	20/10/2024	02/11/2024	Pending



Output of this sprint:

- Software development plan version 1.0.
- Vision document version 1.0.

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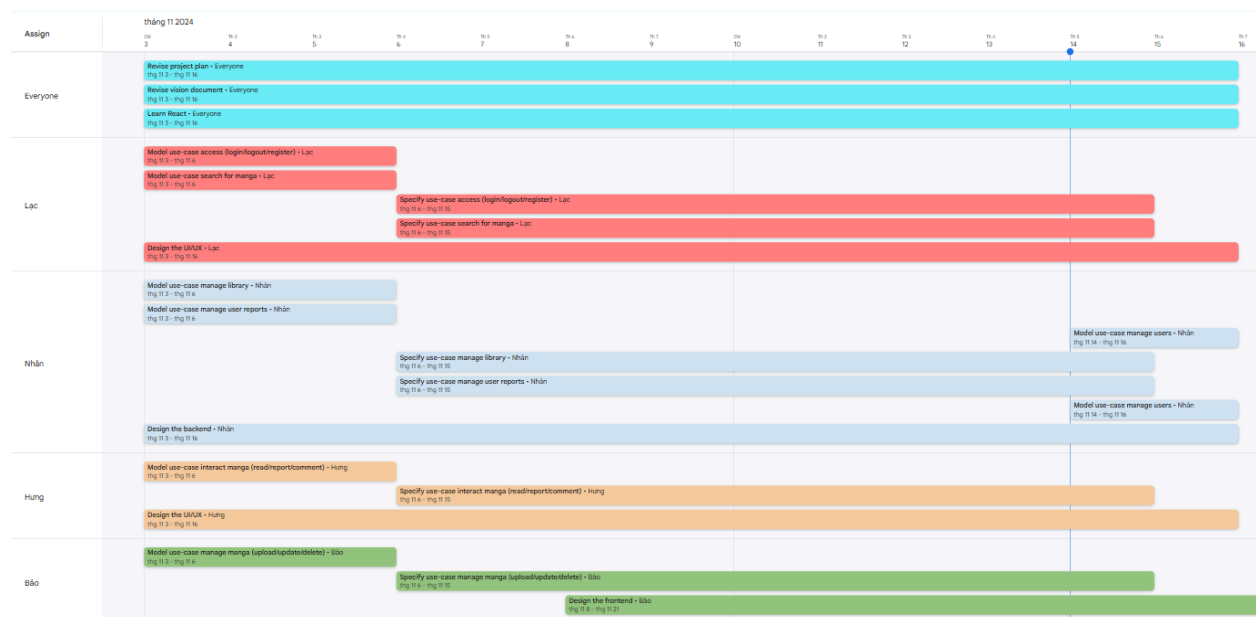
Sprint 2 - PA2

Duration: 03/11/2024 - 16/11/2024

Tasks:

	A	B	C	D	E
1		Start	End		
2	PA2	03/11/2024	16/11/2024		
3					
4	Task	Assign	Start	Deadline	Status
5	Each member fix their respective section in PA1				
6	Revise project plan	Everyone	03/11/2024	16/11/2024	Pending
7	Revise vision document	Everyone	03/11/2024	16/11/2024	Pending
8					
9	Model use-case access (login/logout/register)	Lạc	03/11/2024	06/11/2024	Pending
10	Model use-case search for manga	Lạc	03/11/2024	06/11/2024	Pending
11	Model use-case manage library	Nhân	03/11/2024	06/11/2024	Done
12	Model use-case interact manga (read/report/comment)	Hưng	03/11/2024	06/11/2024	Done
13	Model use-case manage user reports	Nhân	03/11/2024	06/11/2024	Done
14	Model use-case manage users	Nhân	14/11/2024	16/11/2024	Done
15	Model use-case manage manga (upload/update/delete)	Bảo	03/11/2024	06/11/2024	Done
16					
17	Specify use-case access (login/logout/register)	Lạc	06/11/2024	15/11/2024	Pending
18	Specify use-case search for manga	Lạc	06/11/2024	15/11/2024	Pending
19	Specify use-case manage library	Nhân	06/11/2024	15/11/2024	Done
20	Specify use-case interact manga (read/report/comment)	Hưng	06/11/2024	15/11/2024	Done
21	Specify use-case manage user reports	Nhân	06/11/2024	15/11/2024	Done
22	Model use-case manage users	Nhân	14/11/2024	16/11/2024	Done
23	Specify use-case manage manga (upload/update/delete)	Bảo	06/11/2024	15/11/2024	Done
24					
25	Design the UI/UX	Hưng	03/11/2024	16/11/2024	Pending
26	Design the UI/UX	Lạc	03/11/2024	16/11/2024	Pending
27	Design the frontend	Bảo	08/11/2024	21/11/2024	Pending
28	Design the backend	Nhân	03/11/2024	16/11/2024	Pending
29	Learn React	Everyone	03/11/2024	16/11/2024	Pending

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Output of this sprint:

- Software development plan version 1.1.
- Vision document version 1.1.
- Use case specification document version 1.0.
- UI/UX design (will be revised in PA4).
- Back End design version 1.0 (APIs for frontend, not detailed implementations).

Sprint 3 - PA3

Duration: 17/11/2024 - 30/11/2024

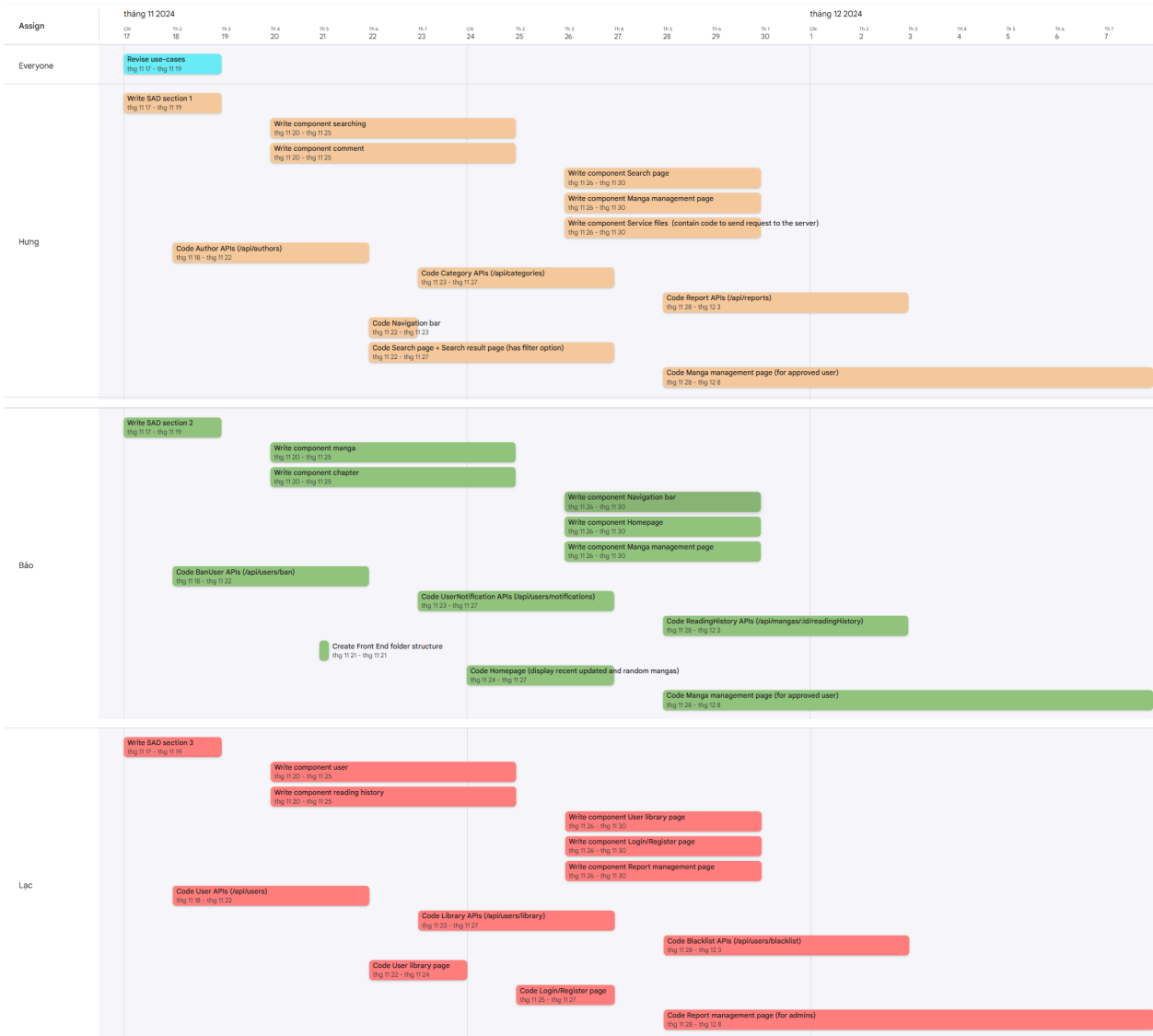
Tasks:

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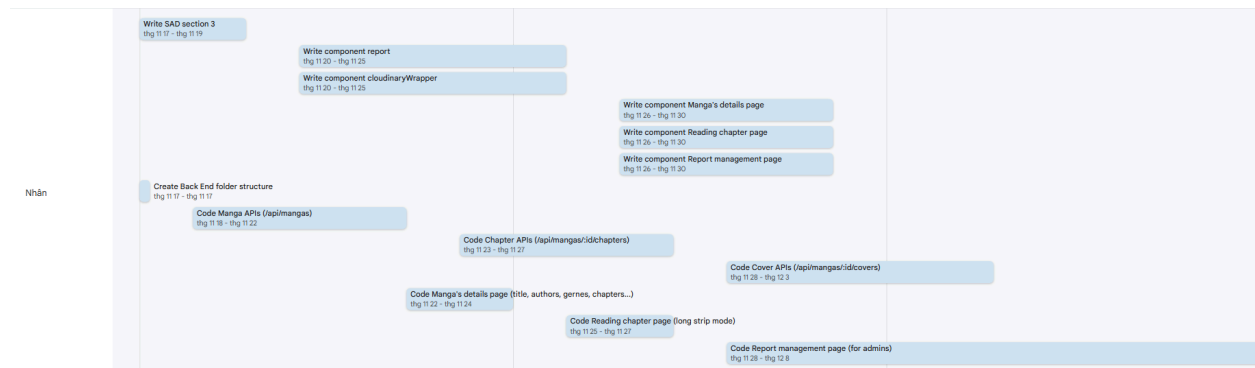
	A	B	C	D	E
1		Start	End		
2	PA3	17/11/2024	30/11/2024		
3					
4	Task	Assign	Start	Deadline	Status
5	Each member fixes their respective use-case in PA2				
6	Revise use-cases	Everyone	17/11/2024	19/11/2024	Pending
7					
8	Write SAD section 1	Hưng	17/11/2024	19/11/2024	Pending
9	Write SAD section 2	Bảo	17/11/2024	19/11/2024	Pending
10	Write SAD section 3	Lạc	17/11/2024	19/11/2024	Pending
11	Write SAD section 3	Nhân	17/11/2024	19/11/2024	Pending
12					
13	Back End components				
14	Write component user	Lạc	20/11/2024	25/11/2024	Pending
15	Write component reading history	Lạc	20/11/2024	25/11/2024	Pending
16	Write component manga	Bảo	20/11/2024	25/11/2024	Pending
17	Write component chapter	Bảo	20/11/2024	25/11/2024	Pending
18	Write component searching	Hưng	20/11/2024	25/11/2024	Pending
19	Write component comment	Hưng	20/11/2024	25/11/2024	Pending
20	Write component report	Nhân	20/11/2024	25/11/2024	Pending
21	Write component cloudinaryWrapper	Nhân	20/11/2024	25/11/2024	Pending
22					
23	Front End components				
24	Write component Navigation bar	Bảo	26/11/2024	30/11/2024	Pending
25	Write component Homepage	Bảo	26/11/2024	30/11/2024	Pending
26	Write component Manga's details page	Nhân	26/11/2024	30/11/2024	Pending
27	Write component Reading chapter page	Nhân	26/11/2024	30/11/2024	Pending
28	Write component Search page	Hưng	26/11/2024	30/11/2024	Pending
29	Write component User library page	Lạc	26/11/2024	30/11/2024	Pending
30	Write component Login/Register page	Lạc	26/11/2024	30/11/2024	Pending
31	Write component Manga management page	Hưng	26/11/2024	30/11/2024	Pending
32	Write component Manga management page	Bảo	26/11/2024	30/11/2024	Pending
33	Write component Report management page	Nhân	26/11/2024	30/11/2024	Pending
34	Write component Report management page	Lạc	26/11/2024	30/11/2024	Pending
35	Write component Service files (contain code to send request to the server)	Hưng	26/11/2024	30/11/2024	Pending
36					
37	Back End coding tasks				
38	Create Back End folder structure	Nhân	17/11/2024	17/11/2024	Pending
39	Code User APIs (/api/users)	Lạc	18/11/2024	22/11/2024	Pending
40	Code Library APIs (/api/users/library)	Lạc	23/11/2024	27/11/2024	Pending
41	Code Blacklist APIs (/api/users/blacklist)	Lạc	28/11/2024	03/12/2024	Pending
42	Code BanUser APIs (/api/users/ban)	Bảo	18/11/2024	22/11/2024	Pending
43	Code UserNotification APIs (/api/users/notifications)	Bảo	23/11/2024	27/11/2024	Pending
44	Code ReadingHistory APIs (/api/mangas/:id/readingHistory)	Bảo	28/11/2024	03/12/2024	Pending
45	Code Author APIs (/api/authors)	Hưng	18/11/2024	22/11/2024	Pending
46	Code Category APIs (/api/categories)	Hưng	23/11/2024	27/11/2024	Pending
47	Code Report APIs (/api/reports)	Hưng	28/11/2024	03/12/2024	Pending
48	Code Manga APIs (/api/mangas)	Nhân	18/11/2024	22/11/2024	Pending
49	Code Chapter APIs (/api/mangas/:id/chapters)	Nhân	23/11/2024	27/11/2024	Pending
50	Code Cover APIs (/api/mangas/:id/covers)	Nhân	28/11/2024	03/12/2024	Pending

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52	Front End coding tasks				
53	Create Front End folder structure	Bảo	21/11/2024	21/11/2024	Pending
54	Code Navigation bar	Hưng	22/11/2024	23/11/2024	Pending
55	Code Homepage (display recent updated and random mangas)	Bảo	24/11/2024	27/11/2024	Pending
56	Code Manga's details page (title, authors, gernes, chapters...)	Nhân	22/11/2024	24/11/2024	Pending
57	Code Reading chapter page (long strip mode)	Nhân	25/11/2024	27/11/2024	Pending
58	Code Search page + Search result page (has filter option)	Hưng	22/11/2024	27/11/2024	Pending
59	Code User library page	Lạc	22/11/2024	24/11/2024	Pending
60	Code Login/Register page	Lạc	25/11/2024	27/11/2024	Pending
61	Code Manga management page (for approved user)	Hưng	28/11/2024	08/12/2024	Pending
62	Code Manga management page (for approved user)	Bảo	28/11/2024	08/12/2024	Pending
63	Code Report management page (for admins)	Nhân	28/11/2024	08/12/2024	Pending
64	Code Report management page (for admins)	Lạc	28/11/2024	08/12/2024	Pending



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Output of this sprint:

- Use case specification documents version 1.1.
- Software architecture design document version 1.0.
- Front End design version 1.0.
- Most of the Back End APIs except the Manga's Cover, Comment and Search APIs.
- Most of the components of Front End except for the Manga management page and Report management page.

Sprint 4 - PA4

Duration: 01/12/2024 - 14/12/2024

Tasks:

1		Start	End		
2	PA4	01/12/2024	14/12/2024		
3					
4	Task	Assign	Start	Deadline	Status
5	Each member fixes their respective section in PA3				
6	Revise SAD	Everyone	01/12/2024	03/12/2024	Pending
7	Adjust UI/UX design (if needed)	Hùng	01/12/2024	14/12/2024	Pending
8	Adjust UI/UX design (if needed)	Lạc	01/12/2024	14/12/2024	Pending
9	Adjust UI code (if needed)	Everyone	01/12/2024	19/12/2024	Pending
10					
11	Each member debugs their respective section in PA3 When they are done, they can continue to debug other members' features				
12	Debug backend	Everyone	04/12/2024	14/12/2024	Pending
13	Debug frontend	Everyone	09/12/2024	19/12/2024	Pending
14					
15	Each member documents their respective section in PA3				
16	Write backend documentation	Everyone	07/12/2024	14/12/2024	Pending
17	Write frontend documentation	Everyone	12/12/2024	19/12/2024	Pending
18					
19	Code Comment APIs (/api/mangas/:id/comments)	Nhân	04/12/2024	08/12/2024	Pending
20	Code Search APIs (/api/search)	Hùng	04/12/2024	08/12/2024	Pending

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Assign	tháng 12 2024													
	CN 1	Th 2	Th 3	Th 4	Th 5	Th 6	Th 7	CN 8	Th 2 9	Th 3 10	Th 4 11	Th 5 12	Th 6 13	Th 7 14
Everyone	Revise SAD • Everyone • thg 12 1 - thg 12 3													
	Adjust UI code (if needed) • Everyone • thg 12 1 - thg 12 19													
	Debug backend • Everyone • thg 12 4 - thg 12 14													
	Debug frontend • Everyone • thg 12 9 - thg 12 19													
	Write backend documentation • Everyone • thg 12 7 - thg 12 14													
Hưng	Adjust UI/UX design (if needed) • Hưng • thg 12 1 - thg 12 14													
	Code Search APIs (/api/search) • Hưng • thg 12 4 - thg 12 8													
Lạc	Adjust UI/UX design (if needed) • Lạc • thg 12 1 - thg 12 14													
Nhân	Code Comment APIs (/api/mangas/id/comments) • Nhân • thg 12 4 - thg 12 8													

Output of this sprint:

- Software architecture design document version 1.1.
- Revised version of UI/UX design (if needed).
- Front End code.
- Back End code and its documentation.
- Release 1.0.

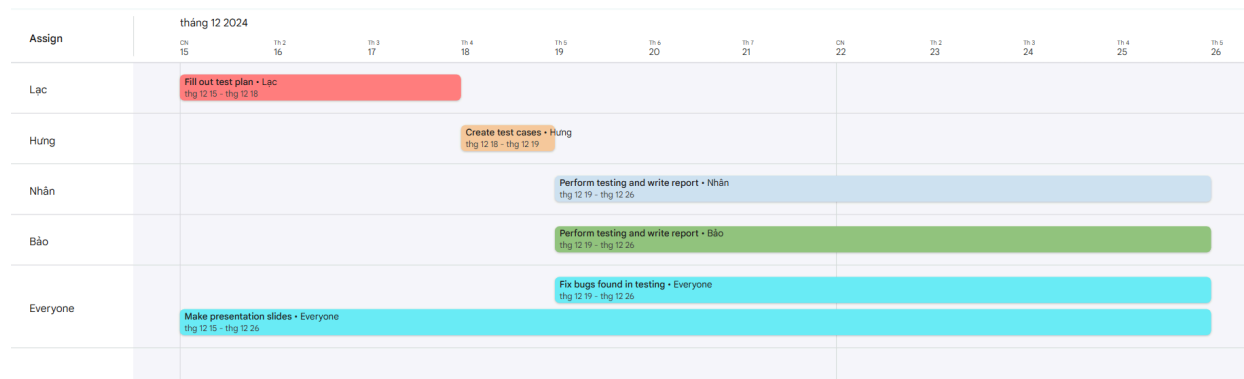
Sprint 5 - PA5

Duration: 15/12/2024 - TBA

Tasks:

	A	B	C	D	E
	Start	End			
PA5	15/12/2024	TBA			
Task	Assign	Start	Deadline	Status	
Each member perform at least 6 test cases					
Since there are 4 members, test leader will perform more test cases					
Fill out test plan	Lạc	15/12/2024	18/12/2024	Pending	
Create test cases	Hưng	18/12/2024	19/12/2024	Pending	
Perform testing and write report	Nhân	19/12/2024	26/12/2024	Pending	
Perform testing and write report	Bảo	19/12/2024	26/12/2024	Pending	
Fix bugs found in testing	Everyone	19/12/2024	26/12/2024	Pending	
Make presentation slides	Everyone	15/12/2024	26/12/2024	Pending	

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Output of this sprint:

- Release 1.1.
- Front End documentation.
- Test plan document version 1.0.
- Test cases and test reports.
- Presentation slides.

4.3 Project Monitoring and Control

4.3.1 Requirements Management

The requirements for this system are captured in the Vision document. Requested changes to requirements are captured in Change Requests, and are approved as part of the Configuration Management process.

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 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

Risks will be identified in the Inception Phase using the steps identified in the RUP for Small Projects activity “Identify and Assess Risks”. Project risk is evaluated at least once per iteration and documented in this table. The risks of the greatest magnitude are listed first in the table.

Risk Ranking (High, Medium, Low)	Risk Description and Impact	Mitigation Strategy and/or Contingency Plan
High	Sudden disappearance of	Using as many ways of communication as

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	teammates, so that makes the project plan become chaotic.	possible to get those members back. If they don't agree or reply, we will talk to the TA..
High	Members are ill at critical times, so that their tasks cannot be finished.	Call up all other members for an instant meeting and distribute the ill members' tasks.
High	There are code conflicts when merging all the works, so that the whole system cannot work.	Call up all members for an instant meeting and distribute tasks to fix the merge conflict.
Medium	Members don't appear at the meeting, so that they miss the information and the leader cannot follow their work progress.	Communicate online with absent members. If there is no suitable reason for not appearing, decrease their contribution rate.
Medium	Members cannot cope with the task, so that their work could not be finished on time.	Check the progress of every team member at weekly meetings.
Medium	Members cannot finish their tasks on time, so that slows down the progress of the project.	If there is no suitable reason for not completing on time and they make this mistake 3 times, decrease their contribution rate.
Low	There are bugs in the project, so that it should be fixed as soon as possible.	Call up the member responsible for the part that has bugs to fix it.
Low	Members are not cooperative at work, so it affects the atmosphere negatively.	Communicate with the members to encourage them to be more cooperative.

4.3.4 Configuration Management

Appropriate tools will be selected which provide a database of Change Requests and a controlled versioned repository of project artifacts.

All source code, test scripts, and data files are included in baselines. Documentation related to the source code is also included in the baseline, such as design documentation. All customer deliverable artifacts are included in the final baseline of the iteration, including executables.