

Tempest Books Store

Research & Development
for Tempest Books Store

By Thi Han Naing

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Will explain about current system

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Will include all time boxes and etc.

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Will include about proposed system

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Will include all analysis that are included.

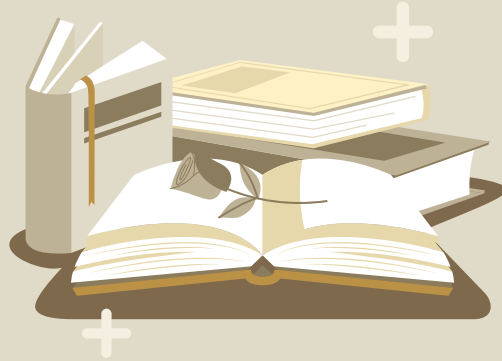
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05.

Design

Will include diagram and prototypes



06.

Development

Will include about coding and etc.



07.

Deployment

Will include about deployment details

09.

Conclusions

References and other factors will be included



08.

Evaluation

Will include detailed evaluation



01 Introduction

Thi Han Naing

- Enrolled in NCC Level 5 after passing Level 4.
- 20 years old, passionate about software development.
- Finished Level 4 and knowledge from other programs.
- Excitedly learning new knowledge and skill in Level 5.





01

Introduction for current business

- Store is located in Yangon, Myanmar tending to get more customers.
- Originally target young adults and teenagers by selling comic books online.
- Later opened a physical store to target more customer regardless of age.
- Introduction a "Online Book Selling System" for a secure, convenient, sophisticated and visual appealing.

Strength and Weakness of Current System

Strength

- Can explore real books in real life
- Have great vibes in the store
- Able to read some pages of the books

Weakness

- Has some inconvenience for customers.
- Take some time to finish the processes.
- Cannot able to explore 24 hours.



Introduction

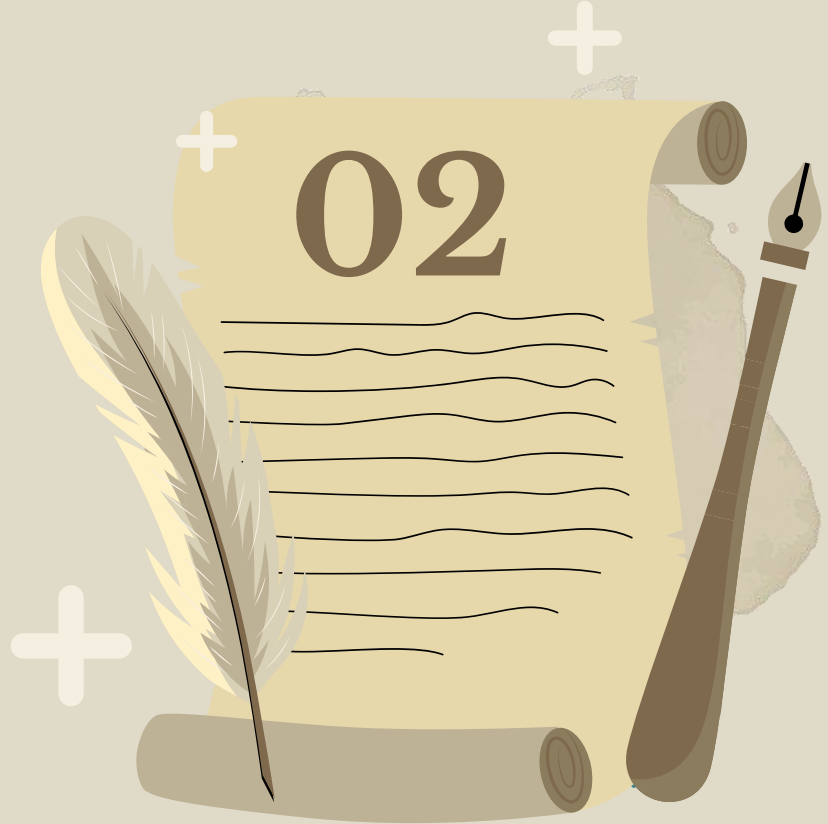


About generation of 27

Mercury is the closest planet to the Sun and the smallest one in the Solar System—it's only a bit larger than the Moon. The planet's name has nothing to do with the liquid metal since it was named after the Roman messenger god, Mercury

Proposal

Proposed system
explanation and scope



Proposal

Comparison

Similar systems will
be compared.

Analysis

Current system will be
analyzed

New System

Will solve current
system's problems

Aims & Objectives

Cost and goals will be
included.



Proposal

Costs

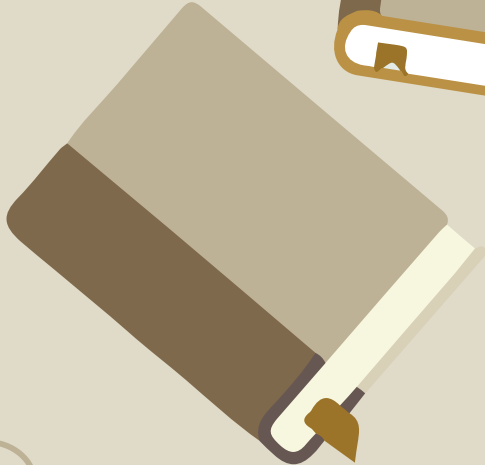
Costs for proposed system will include.

New System Analysis

Will have analysis before implementing

Methodology

Chosen methodology flow will be explained





03

Project Plan

- There are analysis and feasibility studies.
- Developments of a system.
- Deployment plans.
- Risk Management plans.

Project Plan

Analysis

Like in introduction



Diagrams

Use-case, class,
and sequence
diagrams



Iteration

Iteration steps and
processes



Project Plan

Earth is the third planet
from the Sun and the
only one that harbors
life in the Solar System.
This is where we all live

Deployment

Plans, diagram and
explanations



Time-boxes

Timeboxes usages
and importance.



Risk

Management,
identification and
matrix included.



Analysis

Analysis is the necessary
in any types of project.
There will also be analysis
methods in this project.



Analysis

- SWOT Analysis for old system.
- Strength and weakness for technical feasibilities and current system
- Risk analysis for potential issues and problems
- MOSCOW prioritization plans to make project finish in time
- Legal, Ethical, Social, and Professional Issues predictions



Cost Estimation

1. Category	Cost
Hardware	\$ 2105
Software	\$ 160
Development	\$ 1336
Total Cost	\$ 3061

These are cost estimations after analyzing them from real word used the necessities.

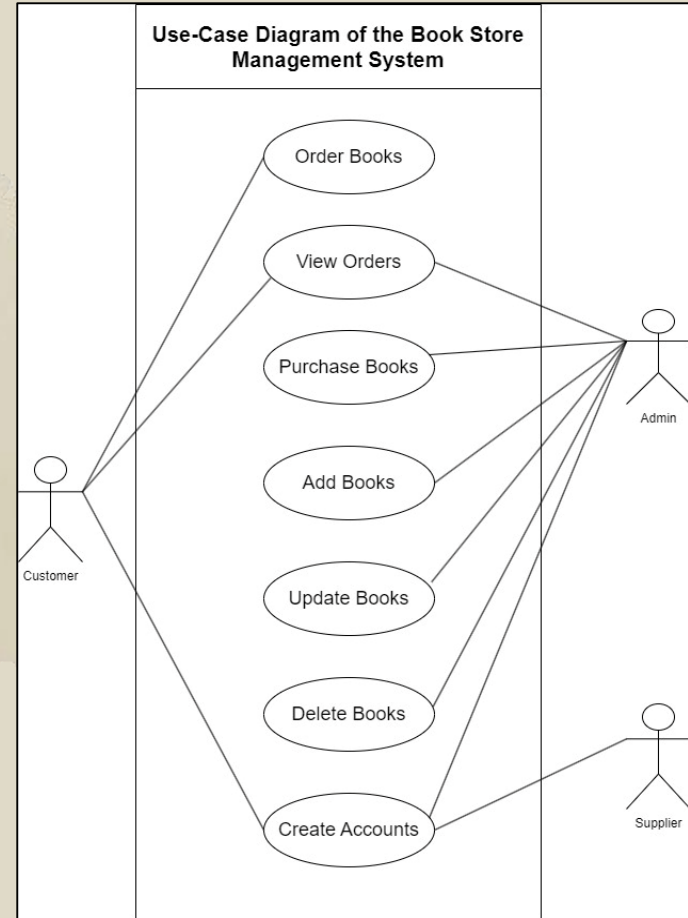
Design

Designing diagram for development and prototypes are needed to make the project successfully finished within time limitations.

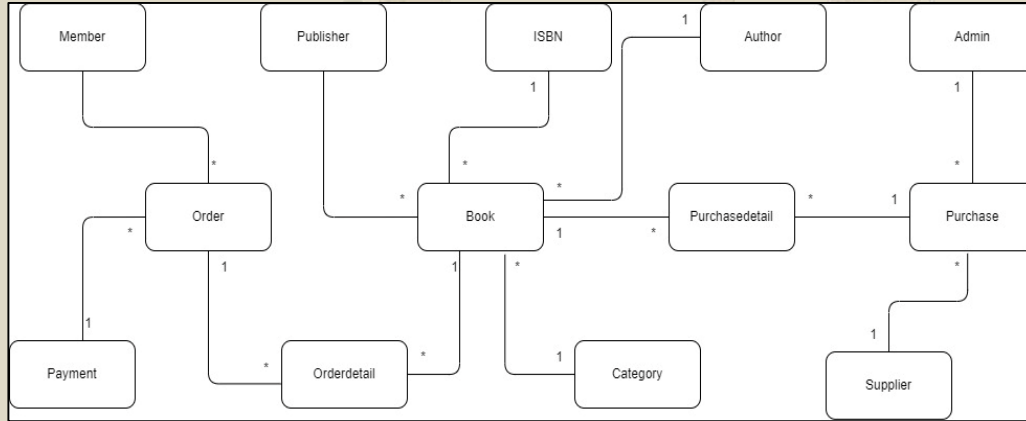


Use Case Diagram

- Use case is crucial in software development projects.
- By reading use case, the system scope can be understood.
- There are three actors but two main actors who will do data changes.
- The figure shows the use case diagram of the book store management system for Tempest Books Store.

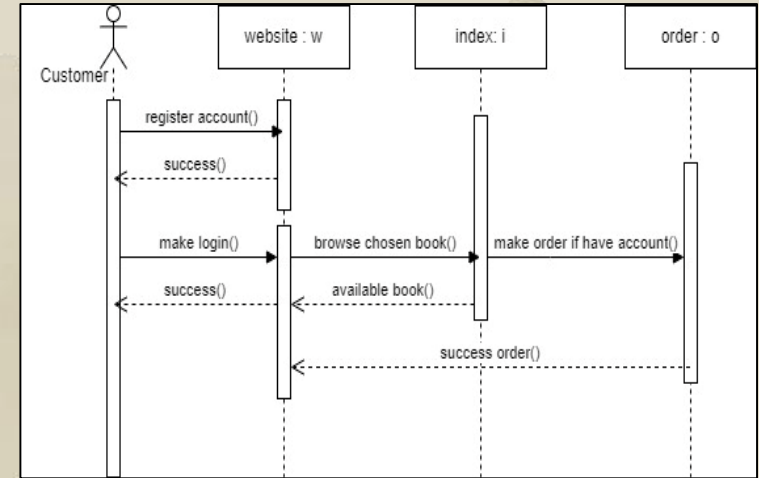
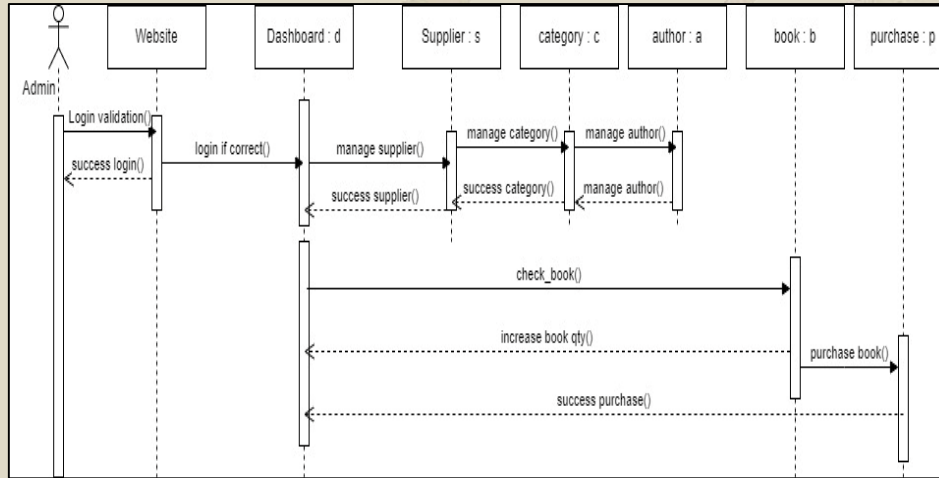


Class Diagram



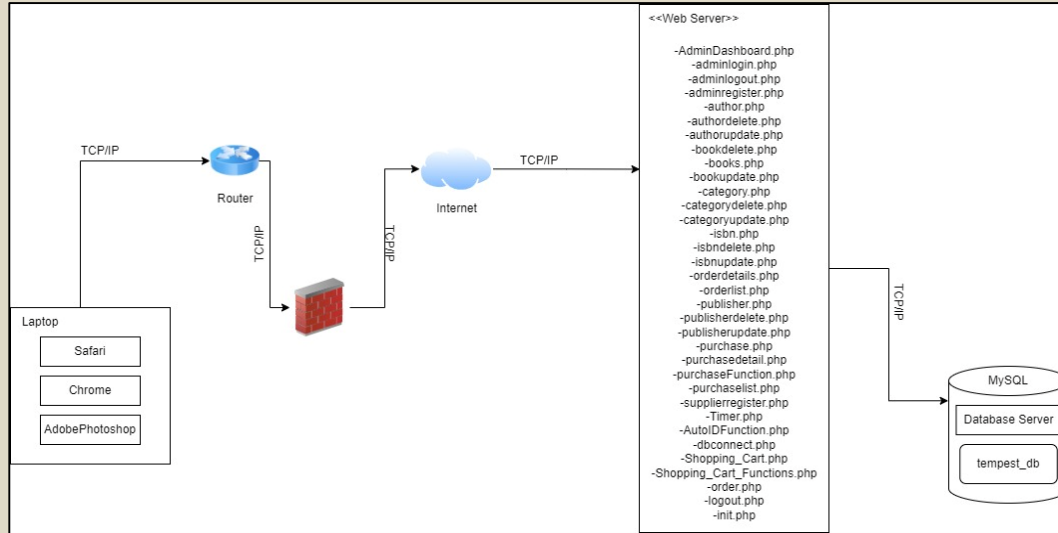
- This is the initial class diagram.
- These entities will help with creating database.
- Reading this use case will help to understand how system connection and flow

Sequence Diagram



- Sequence Diagrams will let the team and stakeholders understand the sequence flow the system.
- After reading this, they will know the steps they will have to do.

Deployment Diagram



- This is the deployment diagram and reading this will help stakeholders and project manager know the steps and working structure of deploying the system.

Prototypes



Low-Level

Low-level prototypes are included to get reviews and satisfactions from admins and confirmation of interface design



High-Level

Designs for customer side website and they are iterated by client's request

The image features a decorative frame containing a stack of four books and a laptop. The top book is yellow with a white label that reads '06'. Below it are three books with dark brown, light brown, and yellow spines. A laptop is partially visible behind the books. To the right of the books are three white plus signs. The background has a light beige watercolor splash.

06

Development

Coding which include both
frontend and backend
technologies

Development

Backend

PHP and MySQL are used for backend development.

Frontend

HTML, Tailwind CSS, and JavaScript are used for frontend development



Applications Used



Visual Studio Code

This IDE is used for frontend development and PHP. This IDE is free to use and has many extensions.



XAMMP

To create database and using of MySQL. Can run PHP codes on local host. This application is free to use.

Deployment

Deploying the system
without errors is really
important.





Deployment



Deployment Plan

Deployment plans and diagram are created and negotiated with clients. In the plan all detailed requirement are included.



Training

There are also training plans for the users to know more about the system processes.



08

Evaluation

- After the project is done, evaluation are documented.
- Included about aim & objectives evaluation and others.

Other Evaluation

- Evaluation against similar system.
- Evaluation against justification made.
- Evaluation against timebox plans.
- Personal evaluation.
- Evaluation for current system.





09

Conclusion

Conclusion for the project
presentation.

Conclusion



References

All the reference I made are described.



Appendix

Some documentations are provided in appendix.



Challenges

Gave lots of experiences and knowledge

Thanks

Do you have any questions?

Feel free to ask.

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