

DATE: December 7, 2023 {Week 9, Day 1}

Classroom Notes on Points to Focus

o) Process analysis:

series of steps that we undergo while performing certain tasks.

Project Abstract must be simple.

→ Title page contains: title, submitted to, submitted by, date

→ Cover letter page.

→ Abstract: simple worded, understandable for low tech audience.

→ Introduction: contains background, objective, motivation & significance, expected outcome.

a) Background: why?, introduce topic, simple worded.

b) Objectives: things to be achieved.

c) Motivation & significance: inspiration for topic important of topic.

d) Expected outcome: refer to objective.

⇒ Literature Review Ch-2 {instead of related works}

To find related and relevant literature, we searched in (----) repository. The search strategy was "NAME AND SOFTWARE AND DESIGN"

aspects to focus: project, purpose, method, finding.

old proposal: Google Drive Linked: {Link in Blogspot Link file},

Q4: Rewriting the proposal.

(1) TITLE PAGE:

A PROJECT PROPOSAL ON
"EXPENDITURE
TRAVERSING
SYSTEM"
} Title

[Subject Code: EN44102]

Submitted by:

Ashraya Kadel

Akash Kafle

Parth Pandit

Sammit Poudyal

} Submitted by

DATE: 20/08/2023

} DATE.

(2) Cover Letter:

The Project Coordinator,
Department of Computer Science and Engineering,
Kathmandu University.

Subject: Cover Letter for Proposal Approval.

Respected Sir,

Submitted for your review is our proposal entitled "Expenditure Traversing System". The proposal is submitted as a requirement of course entitled Engineering Project 102. Within this document, you will find the background, objectives, motivation, expected outcome, literature review, methods and planning for the proposed work. We hope for your keen review and future assistance in this work along with the approval.

Sincerely,

Ashraya Kadel

Akash Kafle

Parth Pandit

Sammit Poudyal

(3) Abstract:

We are making an expense tracking system that helps users to analyze, track and manage their budget during these trying times of economic instability. We intend to create an effective expense tracking platform using C++ programming language and ~~for~~ QT platform. We expect to create a safe, secure and encrypted platform for users to record their budget, provide reports, analysis and suggestions by the end of the project. We envision our application to be accessible for devices with windows operating system.

Keywords: expense, tracking, users, suggestions, budget, analysis.

(4): TABLE OF CONTENTS

→ Components ~~ex~~ in this part.

Abstract Title	Page No.
Abstract	
include	List of figures, table.
subchapter	Introduction
as mentioned.	Literature Review
	Methodology
	System Requirements
	Project Planning and Scheduling
	References

(A) CHAPTER 1: INTRODUCTION

1.1 Background

Although budget tracking is not a new concept, the process of tracking budget using our electronic devices is not common. This helps individuals and families track their expenses without having to maintain collection of physical books. Our 'Expenditure Traversing System' is a computer application that provides safe platform for people to store their budget decisions.

1.2 Objectives

- To reduce the burden of maintaining physical record books to store monetary decisions.
- To properly track outgoing and incoming transactions.
- To make an automatic report organizing user-friendly application.

1.3 Motivation and Significance.

The tradition of maintaining ^{manual} hardcopy records is not a feasible process for a ~~very~~ long time. It is difficult to record and securely store our monetary decisions through hardcopy method. It would be easier and safer to track our economic decision through digital platforms which is our primary motivation in building our application.

The significance of our application is to reduce financial record tracking budget burden and maintaining an easy-to-use system. It helps users to properly track their expenses, set their goals and secure their data. This ^{relieves} helps users of maintaining large hardcopy chunks of private data.

1.4 Expected outcome

- Providing user-friendly financial information tracking system.
- ~~But~~ Providing automatic report generating feature to provide users with summarized information.

CHAPTER 2

(B): ~~EXP~~ LITERATURE REVIEW

To find related and relevant literature, we searched in 'github' repository. The search strategy was "Budget / Expense Trackers AND software AND design."

2.1 Expense Tracker

Purpose: ^{Providing} User-friendly software for personal financial management through enhanced user experience.

Method: Connecting calendar and database to store payments of a certain day through ~~user~~ enhanced user-friendly application.

Finding: Linking monetary decisions to calendar is easier method to evaluate and track budget decisions.

2.2 Spent

Purpose: Creating user-friendly software application providing figurative visual representation of expense data.

Method: Using widget database connecting drivers to represent financial data in terms of pie-chart, bar graph and line graph.

Finding: Users find figurative analysis easier to understand and find ^{it} more user-friendly.

(C) CHAPTER 3 : METHODOLOGY

Firstly, we as teammates come together and discussed various project topics from which an application for tracking expenditure and monetary decisions. We selected C++ as our programming language and QT CREATOR as our coding platform. We focused on the strengths of our project and underwent creative brainstorming to decide basic program skeleton. We focused on developing our prototype and UI framework simultaneously but independently. Once, we have completed the development of prototype and user-interface framework, we integrated them to achieve a robust application. After the integration process, we shifted our attention to vigorously testing our application and debugging process. We focus on documenting our project and declare our ^{application} ~~project~~ ready to use.

9. Flowchart 3

(D) CHAPTER 4: SYSTEM REQUIREMENT SPECIFICATIONS.

4.1 Software Specification:

4.1.1 Front End Tools

The front End Tools used are QT UI framework and widget features.

4.1.2 Back End Tools.

The Back End Tools we use is QT Creator coding window using C++ programming language.

4.2 Hardware Specifications.

Any computers that uses Windows OS 7 or higher to run the application.

(E) CHAPTER 5: PROJECT PLANNING AND SCHEDULING

For creating our applications, we have ~~allocate~~ allocated time of 14 weeks.

The beginning phase of our project is of

We have divided our project development process into three phases: beginning phase, coding + development phase and correction phase.

The beginning phase is 2 weeks long which includes coming up with project ideas to developing a basic program skeleton.

Our second phase is the coding and developing phase which is 10 week's long. This phase consists of developing prototype and user-interface and integrating their features.

The final phase is correction phase which includes testing and debugging of our application along with completion of our application documentation. This phase is about 2 weeks long.

The following Gantt chart represents the timeframe allocated for our project

Gantt Chart

CHAPTER 6 : REFERENCES

1: Title of Github Repository : Link.

DATE: 8 December 2023 of Week 9, Day 2 }

The Burden of Skepticism

→ Written by Carl Sagan.

⇒ <Remembering and Understanding>

- (i): Minimal skepticism is necessary to maintain self-confidence and surity in the situation
- (ii) People are skeptical in certain areas but not in other areas. There is no balance of skepticism based upon situations in people's lives.
- (iii) Certain belief systems exist thousands of years due to our inability to be skeptical.
- (iv) Skepticism is dangerous thus, we must show discipline in skepticism.
- (v) Balance must be maintained between being skeptic and being open to make ways for new ideas to flow.
- (vi) ~~Complete~~ Absolute skepticism leads to lack of gaining new knowledge.
Lack/Absence of skepticism leads to being gullible.

(vii) Skepticism adds burden.

(viii) Bad science drives out good science and science is propelled by thirst of wonder and skepticism.
ie, wonder + skepticism ⇒ better scientific understanding

(x): Project Report-

→ writing is same as proposal with the use of past tense.