

Innovative Project Overview

AI Budgeting and Expense for lab

Team name : The Griffins

Lab Task for R&D Lab – Computer Science Department,
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• Project Scope: Deliverables and Constraints

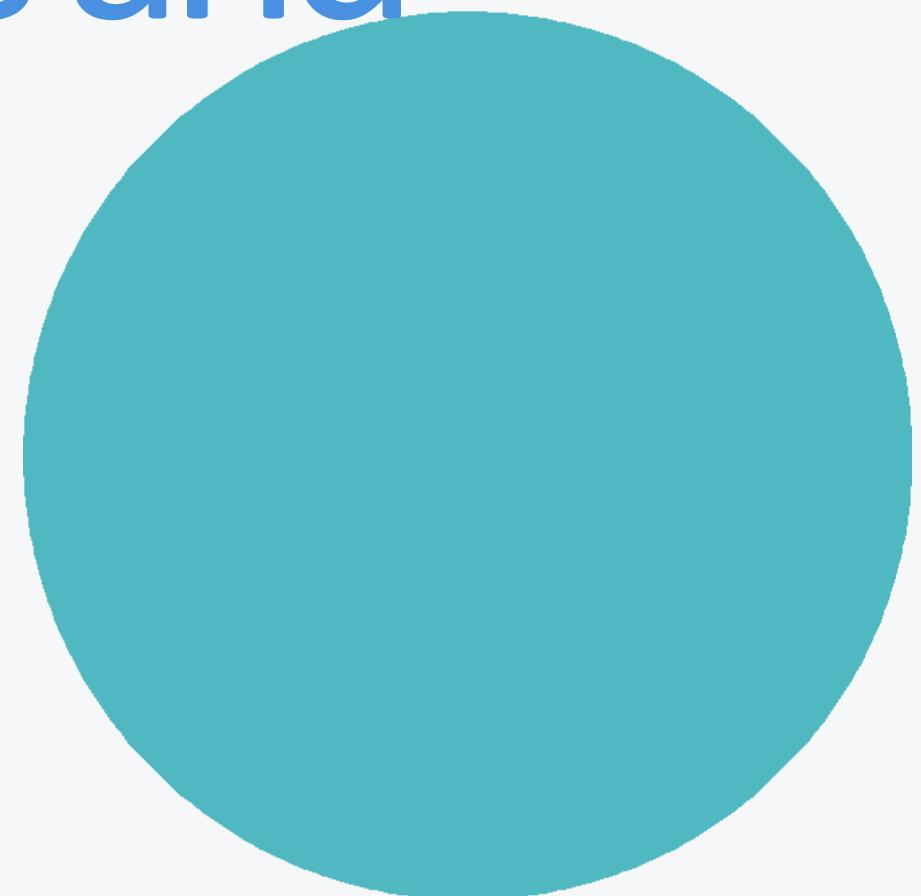
Overview of key elements and limitations

Key Deliverables

The project aims to develop a user-friendly **dashboard** that allows lab personnel to monitor budgets effectively. Key features include **AI categorization** for expenses, precise **forecasting** tools to establish the labs.

Constraints

The project faces several constraints, including limited time for development and resource availability.



- Minimum Viable Product (MVP) Overview

Essential features for initial testing

Expense Tracking Dashboard

The dashboard provides an **interactive interface** for users to view key metrics at a glance. It offers real-time data visualizations, helping lab managers to track budgeting activities effectively, enabling informed decision-making on expenses and allocations.

AI Integration

We integrate the AI just for the improvement in our selection and forecasting. The forecasting tools enable users to anticipate future expenses based on current trends and historical data. This functionality allows for better **financial planning**, ensuring that the lab can allocate resources wisely and respond proactively to changing project demands.

• Vision and Scope

Vision

To develop a **lab-based AI budgeting and expense management system** that demonstrates how artificial intelligence can be applied to financial data, ensuring accuracy, efficiency, and intelligent decision support.

Scope

- Implement AI algorithms for **automatic expense categorization**
- Provide a **minimum viable product (MVP)** with a functional dashboard
- Enable **budget allocation, tracking, and real-time updates**
- Focused on **experimental demonstration** within the lab environment
- Designed to showcase **core functionalities**, not enterprise deployment

Addressing Lab Budgeting and Management Needs

Solves budgeting challenges

The project directly addresses common **budgeting issues**, offering streamlined solutions that simplify financial planning for the lab.

Enables real-time tracking & planning

With real-time tracking capabilities, the project ensures **accurate monitoring** of expenses and resources, enhancing overall efficiency in decision-making.

High demand for automation

Survey insights indicate a **strong desire** for automated solutions, reducing manual processes and increasing productivity within the lab environment.

AI insights vs. spreadsheets

Utilizing AI insights provides a **significant advantage** over traditional spreadsheets, enabling deeper analysis and smarter budgeting solutions tailored for lab needs.

Project Management Tools for Effective Collaboration



Trello: Task Management Made Easy

Trello simplifies task assignment and tracking through a visual board system, enabling team members to collaborate efficiently and monitor progress seamlessly.



GitHub: Code Collaboration Platform

GitHub serves as a powerful platform for version control, enabling developers to collaborate on code, track changes, and manage project repositories effectively.



Notion: Comprehensive Documentation Tool

Notion acts as an all-in-one workspace for documentation and project management, providing tools for writing, planning, and collaborative project tracking within teams.