Cloud Computing Solo Project Proposal

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Project Proposal: Personal Finance Dashboard on AWS Free Tier

1. Project Overview

The goal of this project is to design and implement a serverless, scalable **Personal Finance Dashboard** that allows users to securely track income, expenses, savings, and financial goals through a modern web interface. The solution will utilize **AWS Free Tier services** for cost-efficiency while leveraging best practices in cloud-native architecture.

2. Objectives

- Build a responsive web dashboard to track personal financial data.

- Enable users to add, edit, delete, and view transactions.

- Store and retrieve data securely and efficiently.

- Visualize financial insights such as monthly spending, savings trends, and category breakdowns.

- Stay fully within AWS Free Tier limits to avoid costs during development and testing.

3. AWS Architecture and Services

Purpose	AWS Service	Free Tier Details
Web Hosting	**Amazon S3**	5 GB storage, 20K GET, 2K PUT requests
Backend API	**Amazon API Gateway**	1M REST API calls/month
	AWS Lambda	1M requests and 400,000 GB-sec compute/month
Data Storage	**Amazon DynamoDB**	25 GB storage, 200M requests/month
Visualization (Optional)	**Amazon QuickSight**	1 user, SPICE capacity free for 60 days