CS-6083 Project 1 Report

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I. Introduction

In this report, we will brief talk about the database problem and illustrate our design. The web client and server implement will be describe in project 2 report.

The main task is to design a crowdfunding data system allow user to start a funding project or, as a sponsor, pledge money to some project. The data system should include a user sub-system and a funding system.

(TODO: 用例图)

In particular case of this project, the sponsor will not get something back by pledge a project. The pledging only come from sponsor's willing interested in the project topic. Thus, a sponsor can only discuss or rate a project and the project will charge a sponsor when it reach an end condition.

(TODO: 补充)

We will design an ER Diagram in the next part to illustrate this system.

II. E-R Diagram Design

Entities should include User, Project, Progress,

III. Schema Design

analysis:

IV. Test with sample data

Sample Data:

Test query:

- Create a record for a new user account, with a name, a login name, and a password.

- List all projects that contain the keyword ‘‘jazz’’ and that are currently looking for funds, sorted in descending order by posting time.

- List all users who have given money for projects containing the tag or category ‘‘jazz’’ in the past,  
sorted by the total amount they have successfully pledged (meaning, money that was actually charged).

- List all users who have completed at least 3 projects, and where each of their projects received an average rating of 4 stars or higher from its sponsors.

- List all comments by users that are followed by user ‘‘BobInBrooklyn’’.

- Insert a new project for a particular user, with a name, description, and other needed info.

- Insert a pledge to sponsor a project, for a particular user, project, and amount.

- Write queries for the end of a funding campaign. E.g., you could use triggers to detect when a campaign is fully funded or time is up; if successfully funded, generate charges to sponsors’ credit cards.

V.