**CS2102 Project Report**

Web Database Application

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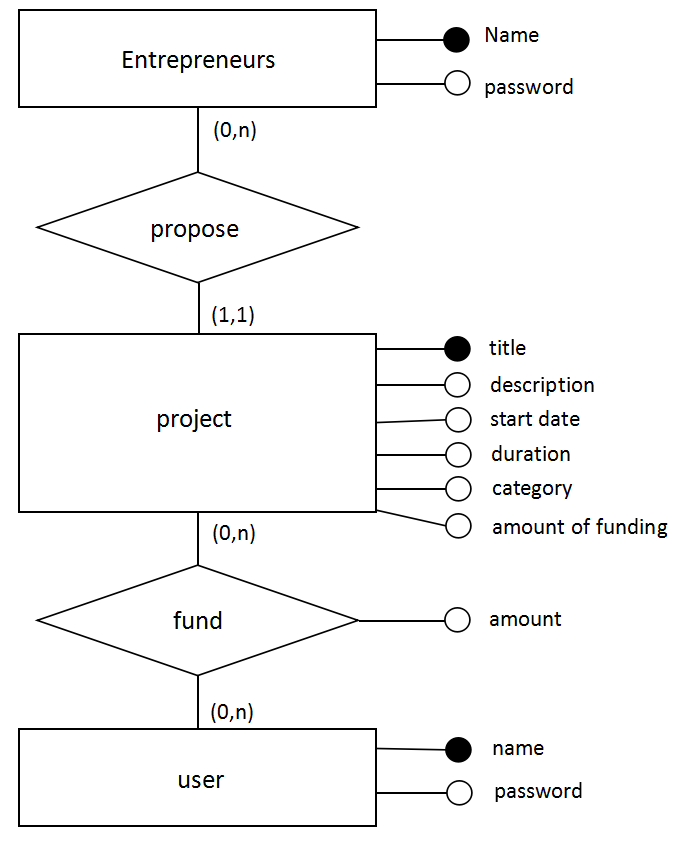
**Introduction**

Crowdfunding is an efficient method to raise money for a project or venture from a large number of unconnected people. Usually crowdfunding are held on Internet. Crowdfunding websites had raised US$89 million worldwide for individuals and companies in 2010, US$1.47 billion in 2011 and US$2.66 billion in 2012 (MacLellan, 2013). Our web application is certainly a crowdfunding platform which contains a catalogue of projects looking for crowdfunding. After registered in our websites, users can start projects for crowdfunding and looking for projects to donate money. Each project has the title, description, start date, duration, categories, current amount of funding and target amount of funding sought. Our application system will keep tracks of all projects so that users can always know the current state of their projects. In addition, administrator will modify some projects to make them more understandable or close some projects if they are expired.

(The introduction about bitnami and the relationship with our web application, 讲道理我不知道bitnami扮演了一个什么角色。。。)

As for programming language, we use HTML, PHP and SQL to implement our application. HTML and SQL are respectively used to build the front-end user Interface and back-end database frame. The PHP is used to build the logic between the front end and back end. We will introduce the detailed application in the following parts.

**ER Diagram**



**Relational Scheme**

DROP TABLE IF EXISTS funding;

DROP TABLE IF EXISTS project;

DROP TABLE IF EXISTS funder;

DROP TABLE IF EXISTS entrepreneur;

DROP TABLE IF EXISTS admin;

CREATE TABLE funder (

name VARCHAR(255) PRIMARY KEY,

password VARCHAR(255) NOT NULL

);

CREATE TABLE entrepreneur (

name VARCHAR(255) PRIMARY KEY,

password VARCHAR(255) NOT NULL

);

CREATE TABLE admin (

name VARCHAR(255) PRIMARY KEY,

password VARCHAR(255) NOT NULL

);

CREATE TABLE project (

id INT PRIMARY KEY,

title VARCHAR(255) NOT NULL,

description TEXT,

owner VARCHAR(255) NOT NULL,

start\_date DATE NOT NULL,

end\_date DATE NOT NULL,

category VARCHAR(255) NOT NULL, -- TODO use enum?

target\_amount INT NOT NULL,

FOREIGN KEY (owner) REFERENCES entrepreneur(name) ON UPDATE CASCADE,

CHECK (target\_amount > 0),

CHECK (end\_date > start\_date)

);

CREATE TABLE funding (

funding\_id INT PRIMARY KEY,

funder\_name VARCHAR(255) NOT NULL,

project\_id INT NOT NULL,

amount INT NOT NULL,

FOREIGN KEY (funder\_name) REFERENCES funder(name) ON UPDATE CASCADE,

FOREIGN KEY (project\_id) REFERENCES project(id) ON UPDATE CASCADE,

CHECK (amount > 0)

);

**Representative Queries**

(representative logic code and explanation)

1. List out all the project currently looking for crowdfunding
2. Start new projects

3. Some other queries

**User Interface**

1. Home page
2. Log in page
3. Some other pages....

**References:**

1. MacLellan, Kylie (August 04, 2013 )Global Crowdfunding Volumes Rise 81% In 2012. Retrieved from: http://www.huffingtonpost.com/2013/04/08/global-crowdfunding-rises-81-percent\_n\_3036368.html