# CS2102 Project Report

## Found Starts Here

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### Introduction

The popularization of Internet and the ubiquitous mediascape we inhabit today provide a new approach, online platform, for crowdfunding activities. 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 project **Found Starts Here**, a web appilication, provides an online platform for entrepreneurs to advertise their projects and raise money from individuals. Entrepreneurs register first and then post their projects with specific information, including title, description, start date, end date, category, status and target amount, to **Found Starts Here**. Entrepreneurs can view, edit, close/open their own projects. Individuals (guests) can browse or search for projects, but they need to register as a valid user first in order to donate money to their desired project. Valid users can view their personal records of previous funding history and edit, view their personal profile. Administrators of the application have the accessibility to create, modify, and delete entrepreneurs, projects or users, in order to ensure the application is protected, up-to-date, persistent, informative and understandable.

Our web application is established on **Apache,** which is a Web server that allows developers to build and run their Web applications**.** In order to store and retrieve data**,** it interacts with the database management system, which is **ProstgreSQL** in our choice.

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

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### Relational Scheme

DROP TABLE IF EXISTS funding;

DROP TABLE IF EXISTS project;

DROP TABLE IF EXISTS user;

DROP TABLE IF EXISTS entrepreneur;

DROP TABLE IF EXISTS admin;

CREATE TABLE user (

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 UNIQUE,

description TEXT,

owner VARCHAR(255) NOT NULL,

start\_date DATE NOT NULL,

end\_date DATE NOT NULL,

category VARCHAR(255) NOT NULL,

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,

user\_name VARCHAR(255) NOT NULL,

project\_id INT NOT NULL,

amount INT NOT NULL,

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

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

CHECK (amount > 0)

);

### Representative Queries

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