

CS2102 Team 18

Crowdfunding



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# Introduction

Our crowdfunding website provides the following functionalities:

* CRUD

- New members can register for an account

- Members can create projects and put on advertisement

- Members can update details of their own project (Eg. title, amount needed, etc)

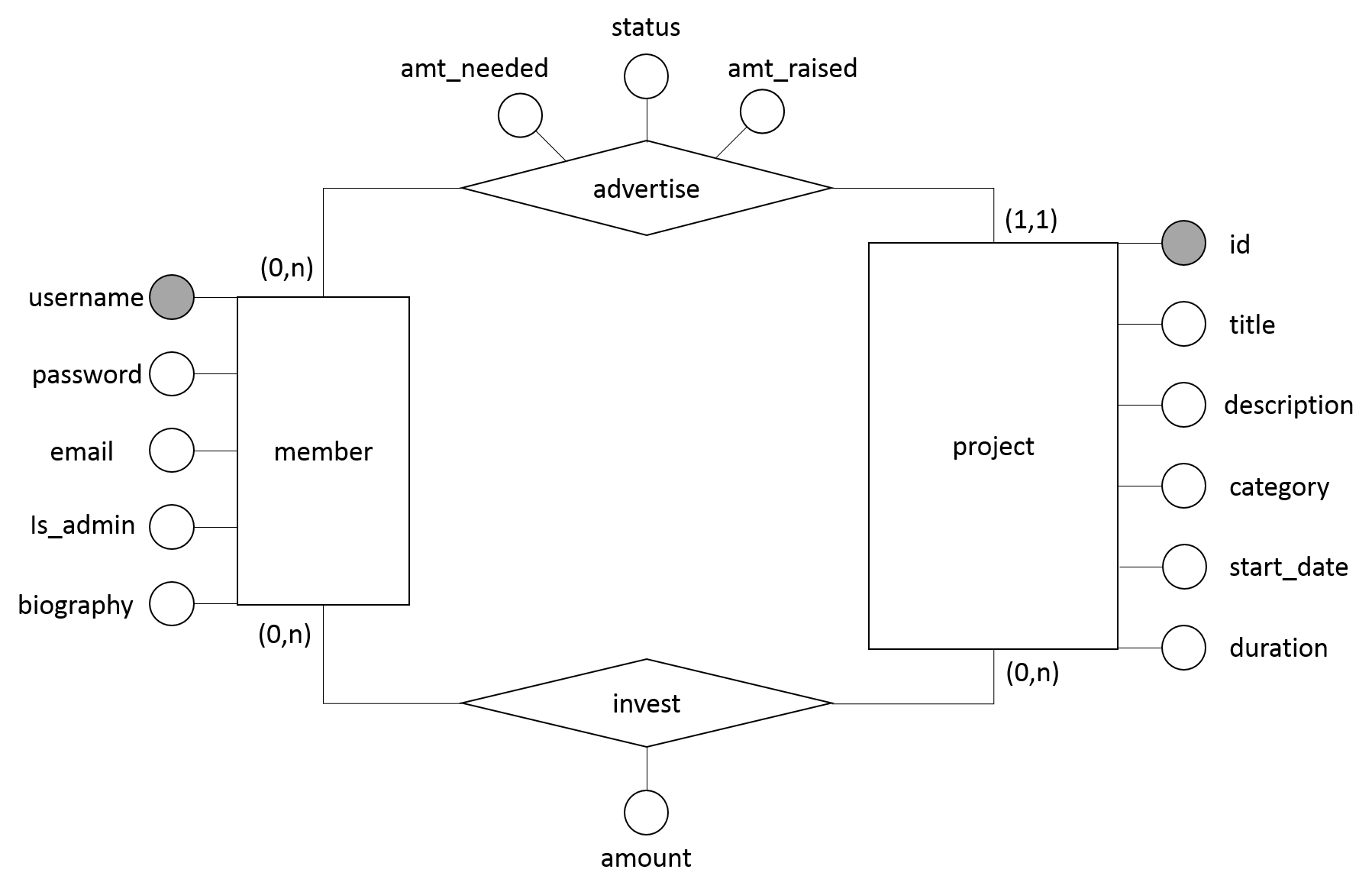
- Members can delete their own project

- Members can update personal information

# Project Specifications

|  |  |
| --- | --- |
| Stack | Bitnami |
| Frontend | HTML, CSS, JS |
| Backend | PHP |
| Database | Postgresql / phpPGAdmin |

# Entity-relationship Diagram



# Relational Schema

## TABLE member

|  |
| --- |
| CREATE TABLE member (  username VARCHAR(16) PRIMARY KEY,  password VARCHAR(16) NOT NULL,  email VARCHAR(64) NOT NULL DEFAULT '',  biography text NOT NULL DEFAULT '',  is\_admin INT NOT NULL DEFAULT 0 CHECK(is\_admin=0 OR is\_admin=1)  ); |

## TABLE advertised\_project

We merge the table advertise and project and use the primary key of the project table. Hence, each project can only be advertised by exactly one entrepreneur.

|  |
| --- |
| CREATE TABLE advertised\_project (  id SERIAL PRIMARY KEY CHECK(id >=0),  entrepreneur VARCHAR(16) REFERENCES member(username) ON DELETE CASCADE,  title VARCHAR(256) NOT NULL,  description VARCHAR(2048) NOT NULL DEFAULT '',  category VARCHAR(256) NOT NULL CHECK(category='Fashion' OR  category='Technology' OR  category='Games' OR  category='Food' OR  category='Music' OR  category='Photography' OR  category='Handicraft' OR  category='Community'),  start\_date DATE NOT NULL DEFAULT CURRENT\_DATE,  duration TIME NOT NULL DEFAULT '00:00:00',  amt\_needed NUMERIC(15,2) NOT NULL DEFAULT '0.00' CHECK(amt\_needed >= 0),  amt\_raised NUMERIC(15,2) NOT NULL DEFAULT '0.00' CHECK(amt\_raised<=amt\_needed  AND amt\_raised>=0),  status INT NOT NULL DEFAULT 0 CHECK(status=0 OR status=1)  ); |

## TABLE invest

|  |
| --- |
| CREATE TABLE invest (  investor VARCHAR(16) REFERENCES member(username) ON DELETE CASCADE,  proj\_id SERIAL REFERENCES advertised\_project(id) ON DELETE CASCADE,  amount NUMERIC(15,2) NOT NULL DEFAULT '0.00' CHECK(amount >= 0),  PRIMARY KEY(investor, proj\_id)  ); |

# Integrity Constraints

# Advanced SQL Features

## Triggers and Functions

Xxxx

Xxxx

Xxxx

Refer to source code for more examples

## Aggregation

# Screenshots