



College Event Website

BY: GROUP 15

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Overview

- ▶ The college event website allows students to view events.
- ▶ Students can view events at their university location.
- ▶ Students can also view events at other university locations.
- ▶ Students can request to create an RSO group or request to follow another RSO group.
- ▶ They are also allowed to view RSO events based on the RSO group they are following.

Levels of Access

Super Admin

- One superadmin per university.
- Creates/Owns a university profile (ex. UCF)
- Designates admins for that university (≥ 5)
- Approves events create by an admin.

Administrator

- Multiple administrators per university (≥ 5)
- Creates events
- Owns multiple RSO's

Student

- View/Join Events
- Create/Join RSO
- Comment/Rate Events

Front End Development

- ▶ HTML5
- ▶ CSS3
- ▶ JavaScript
- ▶ Bootstrap
- ▶ JQuery

Backend Development

- ▶ Languages : Java
- ▶ Database : MariaDB
- ▶ Everything Else : Java Libraries

Java Libraries

- Jetty - a Java HTTP Web server and Java Servlet container.
- JDBC - an SQL convenience library for Java.
- HikariCP - is a “zero-overhead” production-quality connection pool.
- Google Guava - open-source set of common libraries for Java.
- Google GSON - an open source Java library to serialize and deserialize Java objects to (and from) JSON.
- JSoup - is a Java library for working with real-world HTML. It provides a very convenient API for extracting and manipulating data, using the best of DOM, CSS, and jQuery-like methods.

Database Structure

```
CREATE TABLE `student` (  
  `sid`      INT          NOT NULL AUTO_INCREMENT,  
  `uid`      INT          NOT NULL,  
  `username` VARCHAR(100) NOT NULL,  
  `email`    VARCHAR(100) NOT NULL,  
  `password` VARCHAR(36)  NOT NULL,  
  `salt`     VARCHAR(12)  NOT NULL,  
  `created`  TIMESTAMP    NOT NULL DEFAULT CURRENT_TIMESTAMP(),  
  PRIMARY KEY (`sid`)  
);
```

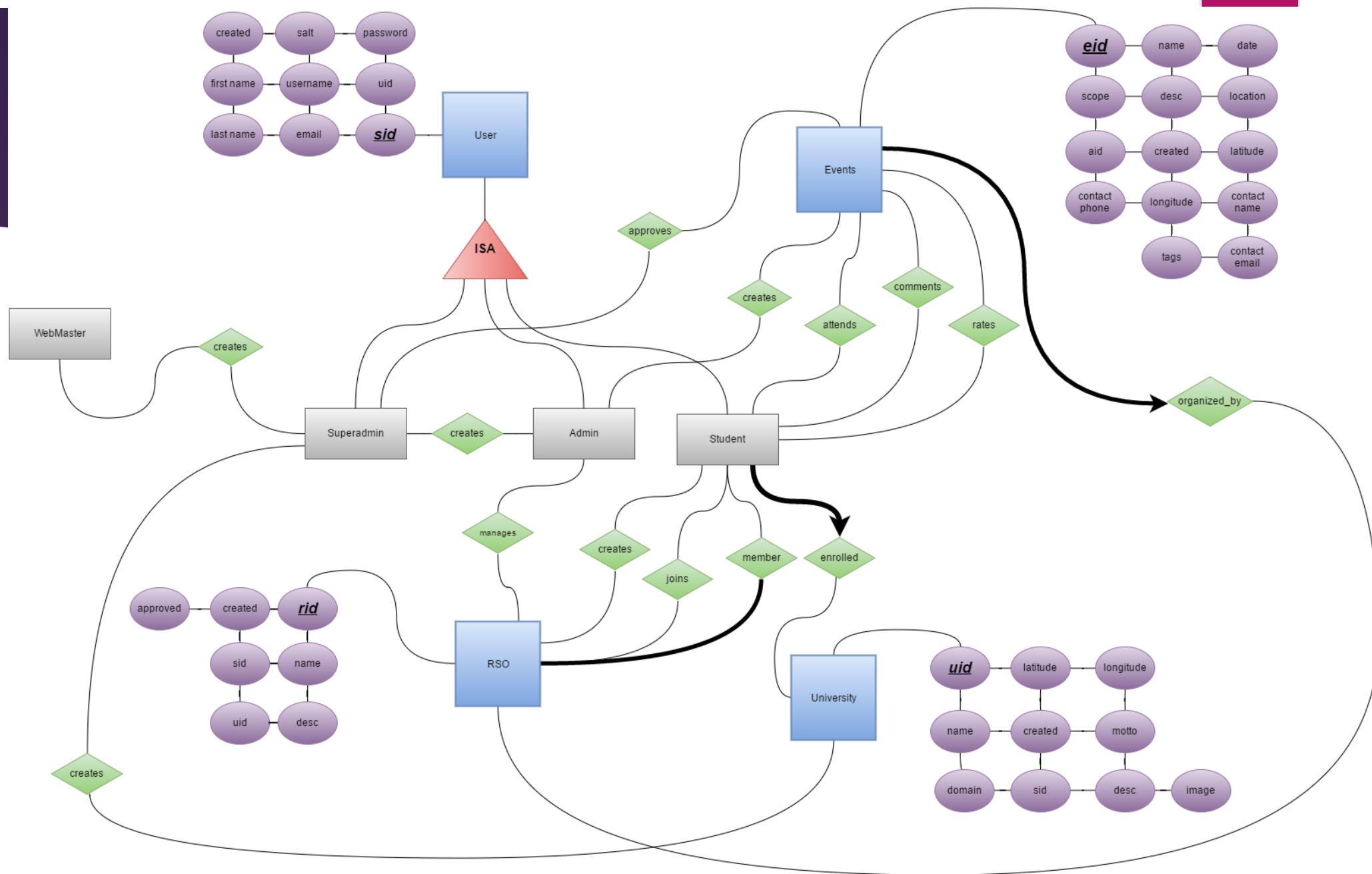
```
CREATE TABLE `university` (  
  `uid`      INT          NOT NULL AUTO_INCREMENT,  
  `name`     VARCHAR(100) NOT NULL,  
  `domain`   VARCHAR(100) NOT NULL,  
  `sid`      INT          NOT NULL,  
  `created`  TIMESTAMP    NOT NULL DEFAULT CURRENT_TIMESTAMP(),  
  `latitude` DOUBLE       NOT NULL DEFAULT 0,  
  `longitude` DOUBLE      NOT NULL DEFAULT 0,  
  `motto`    VARCHAR(100),  
  `desc`     TEXT,  
  `image`    TEXT,  
  PRIMARY KEY (`uid`)  
);
```

Database Structure - Continued

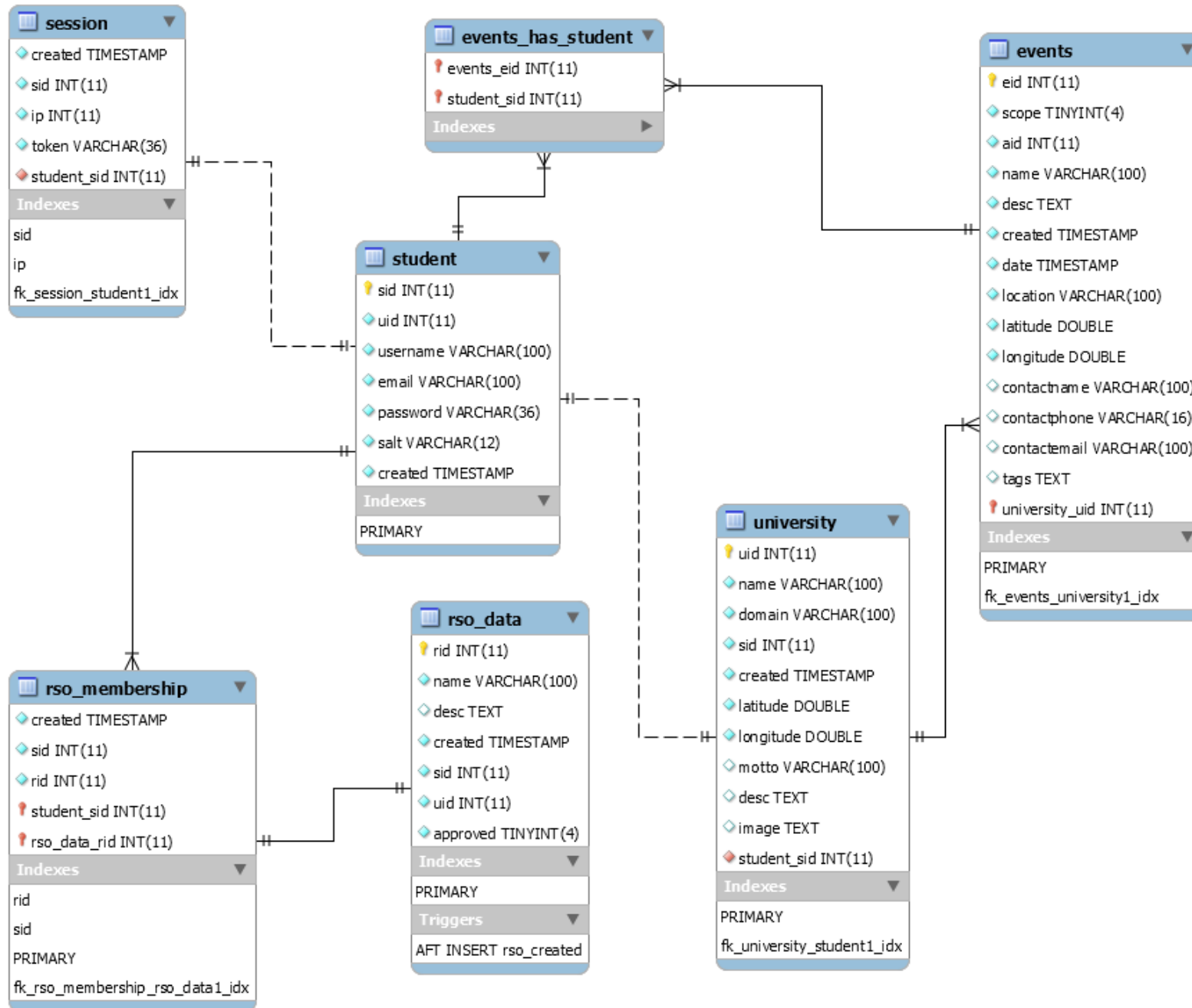
```
CREATE TABLE `events` (  
  `eid`          INT          NOT NULL AUTO_INCREMENT,  
  `scope`        TINYINT      NOT NULL DEFAULT 1,  
  `aid`          INT          NOT NULL DEFAULT 0,  
  `name`         VARCHAR(100) NOT NULL,  
  `desc`         TEXT         NOT NULL,  
  `created`      TIMESTAMP    NOT NULL DEFAULT CURRENT_TIMESTAMP(),  
  `date`         TIMESTAMP    NOT NULL DEFAULT CURRENT_TIMESTAMP(),  
  `location`     VARCHAR(100) NOT NULL,  
  `latitude`     DOUBLE       NOT NULL DEFAULT 0,  
  `longitude`    DOUBLE       NOT NULL DEFAULT 0,  
  `contactname`  VARCHAR(100),  
  `contactphone` VARCHAR(16),  
  `contactemail` VARCHAR(100),  
  `tags`         TEXT,  
  PRIMARY KEY (`eid`)  
);
```

```
CREATE TABLE `rso_data` (  
  `rid`          INT          NOT NULL AUTO_INCREMENT,  
  `name`         VARCHAR(100) NOT NULL,  
  `desc`         TEXT,  
  `created`      TIMESTAMP    NOT NULL DEFAULT CURRENT_TIMESTAMP(),  
  `sid`          INT          NOT NULL,  
  `uid`          INT          NOT NULL,  
  `approved`     TINYINT      NOT NULL DEFAULT 0,  
  PRIMARY KEY (`rid`)  
);  
  
CREATE TABLE `rso_membership` (  
  `created`      TIMESTAMP    NOT NULL DEFAULT CURRENT_TIMESTAMP(),  
  `sid`          INT          NOT NULL,  
  `rid`          INT          NOT NULL,  
  KEY (`rid`),  
  KEY (`sid`)  
);
```


ER Model



Relational Model



Improvements

- ▶ Gradually enhance the user interface.
- ▶ Integrate more social networking features within the application.
- ▶ Test for stability issues.