

## Project Proposal

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**Website Reference:** [UPE - Salisbury University Chapter Academic Honor Societies | Salisbury University](#)

### Project Description:

This project aims at designing a relational database to store information for Salisbury University's honor societies that will be accessible from each honor society's web page. From faculty advisers, officers, members, scholarships and more, each society has multiple series of relationships between its entities to consider. This database will organize this data to be accessed and stored while preserving the data's integrity.

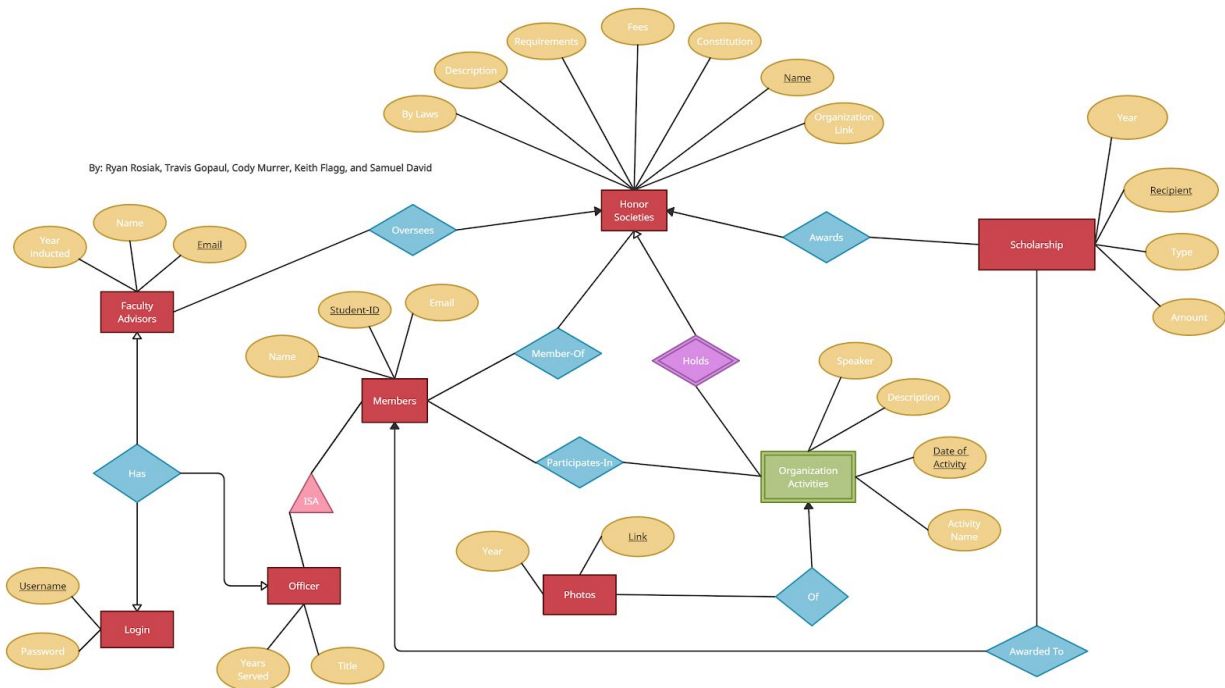
The need for this database application stems from the desire to be able to access various points of data pertaining to Salisbury University's honor societies with precision as well as in a timely manner. As the chapter adviser for Upsilon Pi Epsilon, our client, Dr. Jing, having such a database would be a valuable tool. Within this database structure, authorized users will be able to store and edit data. However, the database will also be available to be searched by the general public. The intention is to publish this database online with the ultimate goal being that every honor society at Salisbury University utilizes the database on their respective websites.

### Requirements:

- The database keeps track of Salisbury University national **HonorSocieties**, keeping the unique *Name* of the honor society, the *Fees* to be paid when entering the society, the overall *Requirements* to get into the society (i.e. You need a 3.0 GPA or higher to enter), the *Description* of the society, the *OrganizationLink* that leads to the national organization's website, the *Constitution* of the honor society, and the *ByLaws* of the honor society.
- For each of the **HonorSocieties**, there are **Members**. Each member can belong to multiple **HonorSocieties**. The **Members** contain the *Name* of member, the unique *StudentID* of the member, and the *Email* of the member.
- There is a special group of **Members** that are **Officers**. Each officer has a *Title* (i.e. Chapter President), a *YearServed*, and a unique *StudentID*. Each officer also has an **OfficerLogin** that can be used to manipulate the database.

- Every **HonorSocieties** has (a) **FacultyAdvisors**. Each has a *Name*, a *YearInducted* into the honor society, a unique *Email* associated with the advisor, and a *hsName* (i.e. **HonorSocieties Name**) honor society that they are advisors for. Each advisor also has a **FacultyLogin** that can be used to manipulate the database.
- Each of the **HonorSocieties** awards **Scholarships** to **Members**. Each scholarship has a *Year* given, a unique *Recipient* name, the *Type* of scholarship (i.e. merit based, athletic, cultural, creative, etc), the *Amount* that was given to the *Recipient*, and the *memID* (i.e. **Members StudentID**) of the *Recipient* that received the scholarship.
- Each of the **HonorSocieties** hosts **OrganizationActivities**. Each event has a unique *DateOfActivity*, a *Description* of the activity, the name of the *Speaker* at the activity (i.e. An officer of the chapter or guest speaker), the *ActivityName*, and a unique *hsName* (i.e. **HonorSocieties Name**) that endorses the activity.
- There are **Photos** that are taken of the **OrganizationActivities**. Each photo has a unique *Link* to the picture, the *Year* it was taken, the *DateOfActivity*, and the *hsName* (i.e. **HonorSocieties Name**).
- There are logins for **FacultyAdvisors** and **Officers**. These administrators can create, delete, and update entries in the database. The **FacultyLogin** contains a unique *Username*, *Password*, and an *Email* (i.e. **FacultyAdvisors Email**) associated with the advisor that has that login information. The **OfficerLogin** contains a unique *Username*, *Password*, and a *StudentID* (i.e. **Officers StudentID**) associated with the officer that has that login information.
- The database contains a linked table **Member-Of** which has a unique *hsName* (i.e. **HonorSocieties Name**), and a unique *memID* (i.e. **Members StudentID**). This table links **Members** to their associated **HonorSocieties**.
- The database contains a linked table **Participates-In** which has a unique *memID* (i.e. **Members StudentID**), a unique *doa* (i.e. **OrganizationActivities DateOfActivity**), and a unique *hsName* (i.e. **HonorSocieties Name**). This table links **Members** to the **OrganizationActivities** that they participate in.

## Database Prototype Design:



**HonorSociety**(Name, Description, Requirements, Constitution, ByLaws, Organization Link, Fees, primary key(Name));

**Members**(StudentID, Email, Name, primary key(StudentID));

**Member-Of**(hsName, memID, primary key(hsName, memID), foreign key(hsName) references HonorSociety(Name), foreign key(memID) references Members(StudentID));

**Scholarship**(Recipient, Year, Type, Amount, hsName, memID, primary key(Recipient), foreign key(hsName) references HonorSocieties(Name), foreign key(memID) references Members(StudentID));

**OrganizationActivities**(DateOfActivity, Description, Speaker, ActivityName, hsName, primary key(DateOfActivity, hsName), foreign key(hsName) references HonorSocieties(Name));

**Participates-In**(memID, doa, hsName, primary key(memID, doa, hsName), foreign key(memID) references Members(StudentID), foreign key(doa, hsName) references OrganizationActivities(DateOfActivity, hsName));

**Photos**(Link, Year, doa, hsName, primary key(Link), foreign key(doa, hsName) references OrganizationActivities(DateOfActivity, hsName));

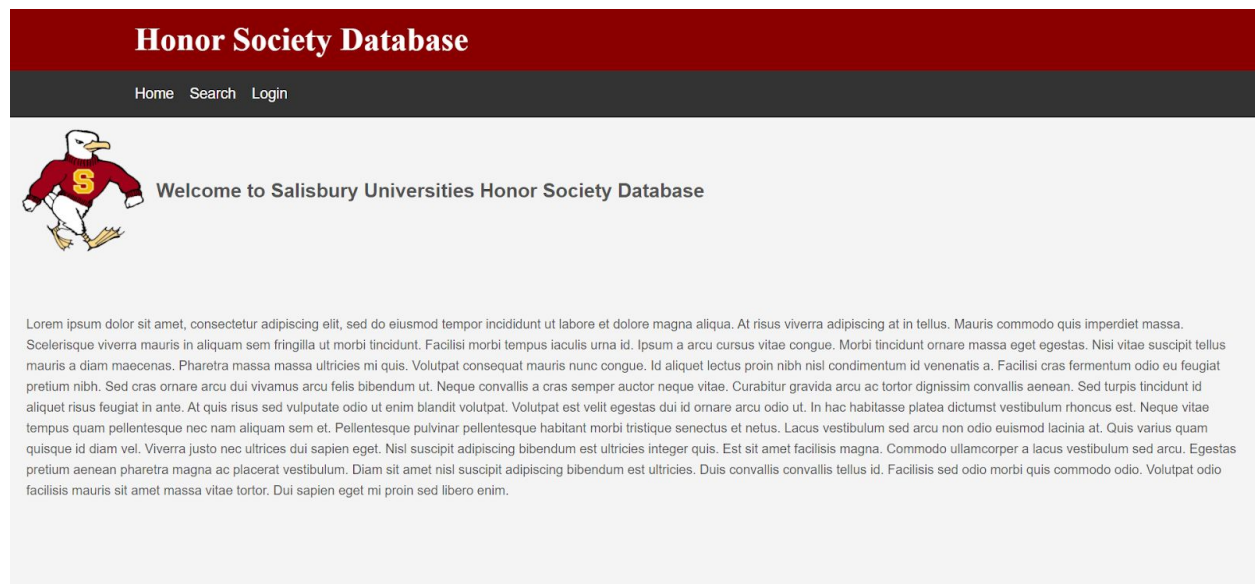
**Officers**(StudentID, Title, YearsServed, primary key(StudentID), foreign key(StudentID) references Members(StudentID));

**FacultyAdvisors**(Email, Name, YearInducted, hsName, primary key(Email), foreign key(hsName) references HonorSocieties(Name));

**FacultyLogin**(Username, Password, Email, primary key(Username), foreign key(Email) references FacultyAdvisors(Email));

**OfficerLogin**(Username, Password, StudentID, primary key(Username), foreign key(StudentID) references Officers(StudentID));

## Interface Sketch:



## Honor Society Database

[Home](#) [Search](#) [Login](#)

Use the following menus to search the database.

Honor Society

**Database**

Select One ▼
 

- Select One
- Beta Alpha Si
- Beta Beta Beta
- Beta Gamma Sigma
- Chi Alpha Sigma
- Eta Sigma Gamma
- Gamma Theta Upsilon

Honor Society	Name	Date Inducted
Upsilon Pi Epsilon	Keith Flagg	2/28/2021

## Honor Society Database

[Home](#) [Search](#) [Login](#)

Email

Password

### Team Work:

We are having regular meetings while dividing and conquering the work.

### 2/8/2021 - Attendance: Ryan, Keith, Travis

We outlined various project ideas and discussed their potential functionality. We looked over the proposal and shared what we felt good about and what we needed to work on individually. Going forward, we will run our ideas by Dr. Jing and come back together later when we have learned more foundational knowledge in class.

**2/18/21 - Attendance: Whole Group**

Our group welcomed two new members and got everyone up to speed on the state of the proposal. We looked over the requirements and discussed plans moving forward. A basic sketch of an ER diagram was created and we dispersed to think about how we are going to draw up our full diagram. We decided to meet in a few days to start getting the real work done.

**2/21/21 - Attendance: Whole Group**

Our group got together and laid out a prototype ER diagram. We took all of the requirements given to us by Dr. Jing (our client) and got it structured. There are a few spots that we were unsure of how to structure the diagram and other questions about the implementation of the full database that require further insight from our client. We also wrote up a mock project description. Lastly, we ended by planning to meet with Dr. Jing and get more information on how we should finalize our database design before we write up the full project proposal.

**2/23/21 - Attendance: Whole Group**

Our group met with Dr. Jing to review the ER diagram and answer questions about specific aspects about her needs for the database.

**2/24/21 - Attendance: Whole Group**

Our group got together to get more of the meat of the project put together. We have a fully implemented rough draft to the project description, a fully translated database (with one small edge case to fix), and plans to start sketching our UI for the next meeting. We plan to meet with Dr. Jing to get our translation issue squared away so the requirements page can be written.

**2/28/21 - Attendance: Whole Group**

Our group got together to finish the rest of the database prototype design schema. We created the interface sketch for the database and finished the requirements portion of the proposal. We plan to meet with Dr. Jing before the due date to make sure the sketch and the entire proposal looks good before we brush it up and turn it in.

**3/3/21 - Attendance: Ryan, Travis, Cody, and Samuel**

Our group finalized the project proposal and turned it in. We are ready to start working on the project!