The system in place at CFAS (Center for Academic Success) is not user-friendly and primitive. In order to make an appointment for a student, an admin must be involved in the process. Students must either go to the Center or call during office hours for an admin to make his/her appointment. This solution is outdated, as most systems today offer online autonomy to its users. Furthermore, this solution disallows CFAS from servicing the maximum number of students possible because it relies heavily on the availability of the admin staff, either by phone or in person. In other words, the business rhythms around appointments would suffer greatly if there were fewer admins working on the center.

My role in the project is to create a Website where user can login with a secure way, make an appointment online to have a tutoring session with all the available tutors, as well as have interaction with other users who also use the services provided by CFAS.

### System Design

![System Design Diagram](image)

### Object Design

- **Client**
  - Web Browser
  - PantherTracker (Application) Server
  - Website
- **Server**
  - Data Base Server
  - MySQL

### Implementation

- **Data Base Server**
- **PantherTracker (Application) Server**
- **Client**
  - Web Browser
- **Website**
  - **MySQL**
  - **Apache HTTP Server**

### Requirements

- The student shall have the option to make an appointment.
- System shall redirect the student to a login page.
- The student shall have the ability to login onto the system.
- System shall validated the student’s credentials against the list of stored students.
- System shall communicate to the student that the login process was successful completed.
- System shall communicate to the student that his/her login information was invalid and that the student has the option to try their login process again or create an account.
- System shall display an appointment page where student has the ability to make an appointment.
- System shall display what user has the same date, hour, subject, tutor if student happens to request an appointment with these same criteria.
- System shall display a “members” page where user can locate student to interact with.
- System shall have a “notification” page where user can send a join session request to another user.
- System shall let student send “join appointment requests” to other users.

### Verification

<table>
<thead>
<tr>
<th>Test Case ID</th>
<th>Purpose</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>TC001-TC001</td>
<td>Login with correct username and password input.</td>
<td>Pass</td>
</tr>
<tr>
<td>TC001-TC002</td>
<td>Login with incorrect username and password. User has an existing account.</td>
<td>Pass</td>
</tr>
<tr>
<td>TC001-TC003</td>
<td>Login with username and password inputs. User does not have an account.</td>
<td>Pass</td>
</tr>
<tr>
<td>TC002-TC001</td>
<td>Adds an appointment to the database.</td>
<td>Pass</td>
</tr>
<tr>
<td>TC002-TC002</td>
<td>Adds an appointment to the database with different inputs criteria.</td>
<td>Pass</td>
</tr>
<tr>
<td>TC002-TC003</td>
<td>Adds an appointment to the database. User left an empty field.</td>
<td>Pass</td>
</tr>
<tr>
<td>TC003-TC001</td>
<td>Tutors request to join a session with another user.</td>
<td>Pass</td>
</tr>
<tr>
<td>TC003-TC002</td>
<td>Drop a request made previously.</td>
<td>Pass</td>
</tr>
<tr>
<td>TC003-TC003</td>
<td>Show a message with user holding same appointment criteria.</td>
<td>Pass</td>
</tr>
<tr>
<td>TC004-TC001</td>
<td>Send a request made by somebody wanting to join a session.</td>
<td>Pass</td>
</tr>
<tr>
<td>TC004-TC002</td>
<td>Show a list of all the users requesting to join a session.</td>
<td>Pass</td>
</tr>
<tr>
<td>TC004-TC003</td>
<td>Deny a request made by another user.</td>
<td>Pass</td>
</tr>
<tr>
<td>TC005-TC001</td>
<td>Test if the user is logged out successfully.</td>
<td>Pass</td>
</tr>
<tr>
<td>TC005-TC002</td>
<td>Test if the user is logged out successfully from any page in the system.</td>
<td>Pass</td>
</tr>
<tr>
<td>TC005-TC003</td>
<td>Test if the user is logged out successfully by trying to click any page.</td>
<td>Pass</td>
</tr>
</tbody>
</table>

### Screenshots

![Screenshot 1](image)

![Screenshot 2](image)

### Summary

The Panther-Tracker appointment system will be an excellent solution to overcome the current system limitations. With the ability to have students make appointments with a website, users of the tutoring center will have not only the option to make an appointment but also have interaction among all the users of the system. The Panther Tracker can be expanded even further to create a more complete system for all students who need the services provided by CFAS (Center for Academic Success).

### Acknowledgement

The material presented in this poster is based upon the work supported by Alexis J Rodriguez.