

Graduate School Project

Team Strawberry

Amanda T., Plamen P., Dhaval D., Visishta D.

Plan: Oct 24th - Oct 31st

- Database ERD - Version 2 (cont.)
- Manage Users & Projects Pages
 - Modify/Delete Users (cont.)
- System Settings Page
 - Category Settings
- Scores Page
- LDAP
- Rally! - Transfer backlog, test plans (cont.)

Oct 15th - Oct 22nd

Priority:

- Database ERD - Version 2 (Next Iteration)
- Manage Users & Projects Pages
 - Modify/Delete Users (Continue)
- System Settings Page - Layout, Functionality
 - General Settings
 - Category Settings (Next Iteration)
- Rally! - Transfer backlog, test plan (Continue)
- Learning Cucumber

Time Permits:

- Scores Page - Layout (Next iteration)

Oct 8th - Oct 15th

- Manage Users
 - View Users
 - Add Users
 - Search & Clear
- Registration Field Requirements
 - Password - Six characters, alphanumeric
 - Project Description - 250 word maximum
- Database ERD
 - Version 1 complete - Not satisfactory. Continue in next iteration.
- Test Plan

Oct 1st - Oct 8th

- Continue migration to CodeIgniter framework - Done
- Database ERD - Moved to next iteration
- Complete Layouts of:
 - Registration - Done
 - Sign In - Done
 - Projects-Participants - Need Reports, Pagination
 - Projects-Judges - Need Reports, Pagination

Sept 24th - Oct 1st

- Confirmed LDAP requirements will be postponed until later in the project
 - Updated registration flow chart
- Decided to use PHP with CodeIgniter framework
- Researched Bootstrap, PHP, CodeIgniter
- Converted Home and Projects pages from HTML/CSS to PHP
- Started sign in validation, adding users, session ids, and populating tables with database records
- Linux server environment

Scope

This project will produce a web application to manage student registration, judge assignment, score tabulation and award assignment for the Wayne State University Graduate School's yearly Graduate Exhibition in this and future years.

Functional Requirements: User Registration

1 - All users must have a unique username and secret password.

1.1 - WSU login credentials (LDAP)

2 - The functionality exposed to each user should be restricted by the role they play in the exhibition.

3 - Allow grad students to register themselves and their projects as participants via the world wide web.

3.1 - A date after which registration is closed may be specified by an administrative user.

Functional Requirements: Administrative Privileges

4 - Allow administrative users and their delegates to register judges for the exhibition.

5 - Administrative users should be able to add, view and modify all types of user accounts.

6 - Allow for the entry, modification and viewing of project categories

6.1 - Each category should have a default set of sub score categories that are editable by administrator.

6.2 - Each category should have a default set of awards and the formula by which they are awarded which may be edited by an administrative user.

Functional Requirements:

Assigning Judges

7 - Assign judges to evaluate projects.

7.1 - The number of judges per project may be specified by an administrative user.

7.2 - The number of projects per judge may be specified by an administrative user.

7.3 - Refrain from assigning judges to projects for which they may have a conflict of interest.

7.4 - The following reports should be available:

7.4.1 - Judges grouped by their assigned projects.

7.4.2 - Projects grouped by their assigned judges.

7.4.3 - Scorecards with the judge and project details

Functional Requirements: Inputting & Summarizing Scores

8 - Input evaluation scores.

8.1 - Task may be performed by judges, administrative users or score entry users.

8.2 - Judges can only enter scores for the projects they have evaluated.

Functional Requirements: Inputting & Summarizing Scores

9 - Summarize the scores of all participants.

9.1 - The following reports should be available:

9.1.1 - Scores grouped by category and sorted by any field.

9.1.2 - The top n participants in any category.

9.1.3 - The breakdown of all participants' scores.

9.2 - Administrative, score entry and judge users should be able to search by name for participants to see their score breakdown.

Non-Functional Requirements: Security

10 - All reasonable measure to prevent a user from modifying, viewing or deleting a record that they do not have permission to modify, view or delete should be taken.

10.1- All databases secured by username and password.

10.2 - Transmission of information between the client and server should not be in the clear.

Non-Functional Requirements: Documentation

11 - All functionality implemented in the GERSP system must be documented. (i.e., user action to activate the feature and expected output should be defined.)

12 - All database fields must have some meta data associated with them giving precise descriptions and examples of the data they should contain.

13 - All Java code should be documented using Javadoc comments.

Non-Functional Requirements: Performance

14 - Each user of the system should interact primarily with a single screen to perform their task to minimize the number of clicks and therefore the amount of time interacting with the electronic system.

15 - Score summary and award assignment must occur within 10 minutes after activation by the user.

16 - Judge assignment must occur within 10 minutes after activation by the user.

Non-Functional Requirements: Reliability

17 - A daily backup of system data should be scheduled.

17.1 - Each backup must occur in two places, only one of which may be located physically near to the server.

18 - Manually triggered backups should be available to administrative users.

18.1 - This backup may be saved to the media of the user's choice. (e.g., a flash drive or a networked drive.) or to the default backup locations.

Non-Functional Requirements: Availability

19 - Once opened for registration, the GERSP system servers should remain online and available 24/7 to allow students and judges to register.

20 - On the day of the exhibition, the system may be restricted to only essential users to ensure a timely response.

Team Organization

- Team Leaders
 - Amanda, Plamen
- Development
 - Amanda, Plamen
- Testing
 - Vishi, Dhaval
- Documentation
 - Vishi, Dhaval

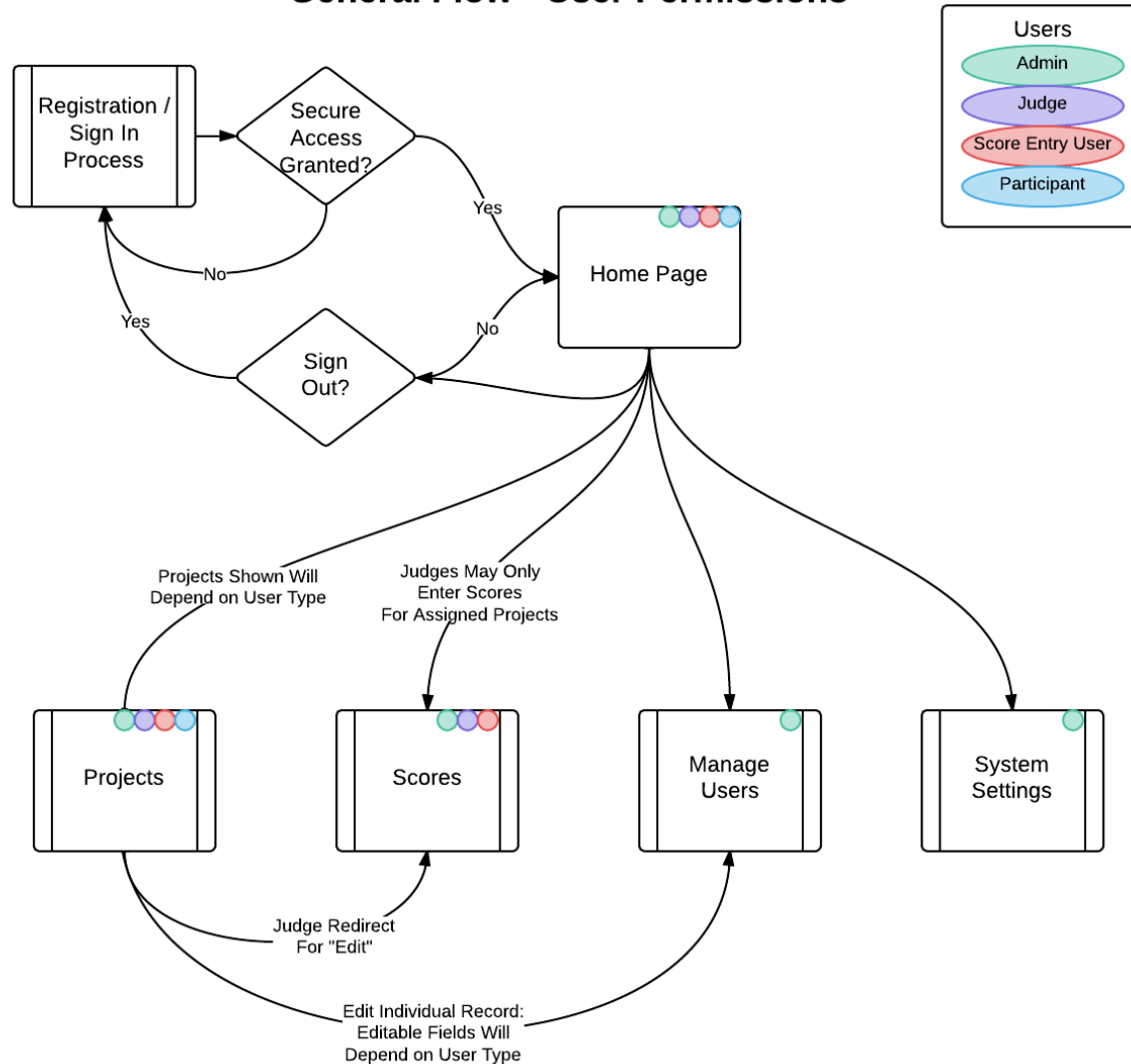
Architecture & Technology Choices

- Presentation Tier
 - HTML/CSS - WSU CSS attributes
 - Bootstrap (Responsive Design)
 - Javascript
- Logic Tier
 - PHP - CodeIgniter: PHP Open Source Framework
 - ~~JSP~~
- Data Tier
 - MySQL
 - WSU LDAP
 - Apache - Tomcat Server

Analysis & Modeling

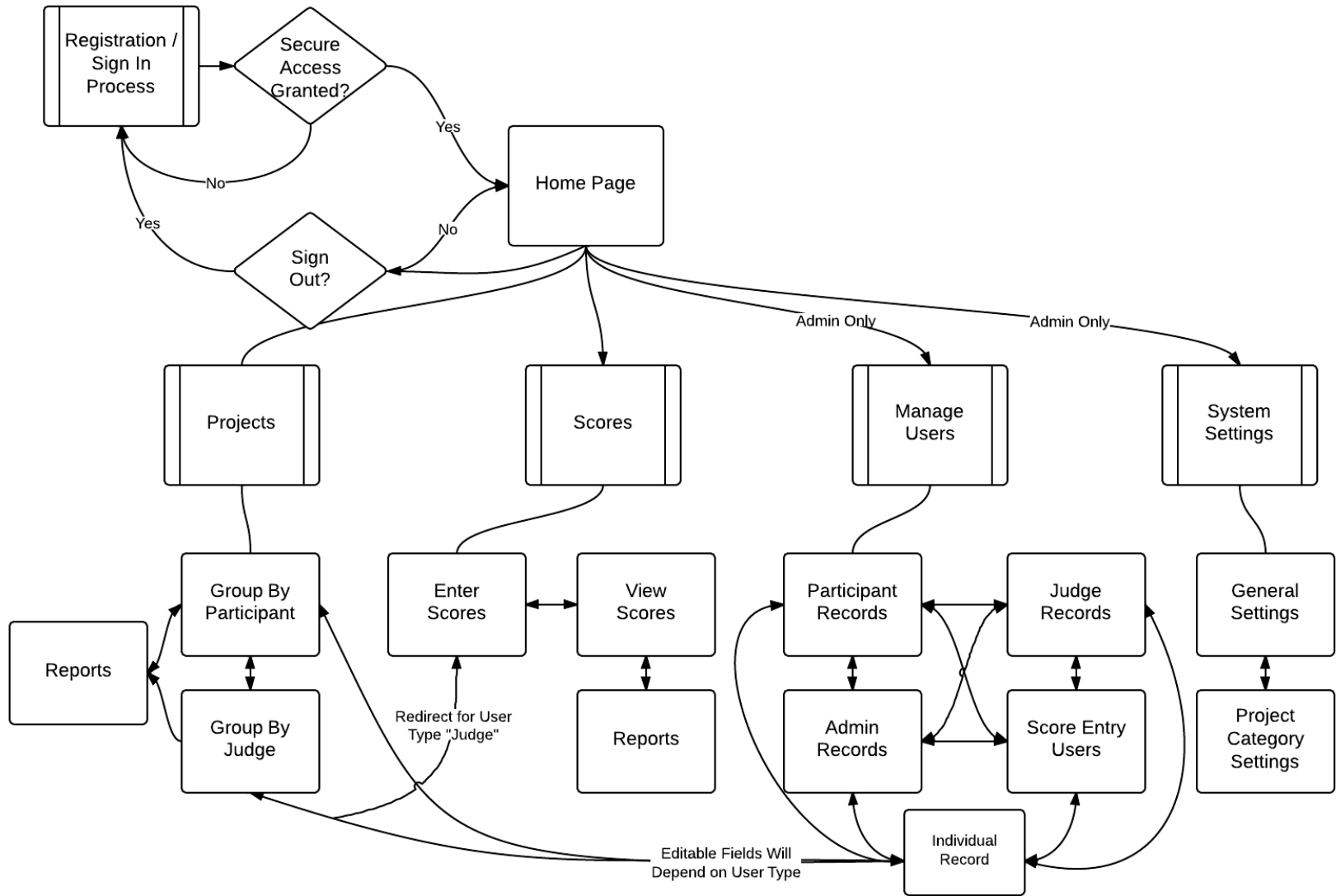
- High Level Flow - Main Pages & User Permissions
- High Level Flow - Main & Sub Pages
- Registration & Sign In Flow
- Use Case & Flow - Main Pages
 - Projects
 - Scores
 - Manage Users
 - System Settings
- Website Mockups
- Database ERD - In progress

General Flow - User Permissions



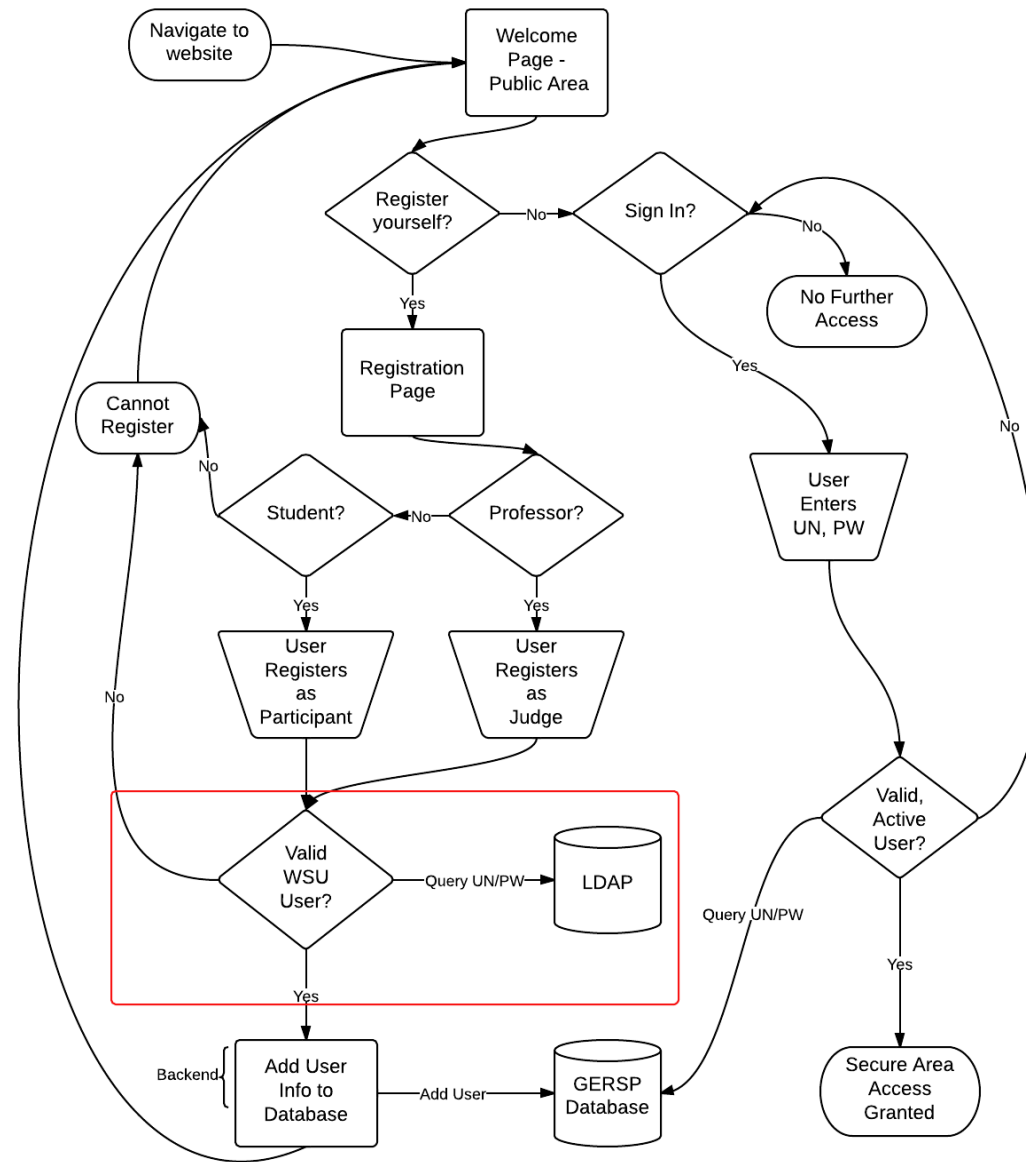
High Level Flow: Main Pages with User Permissions

General Flow - With Subpages

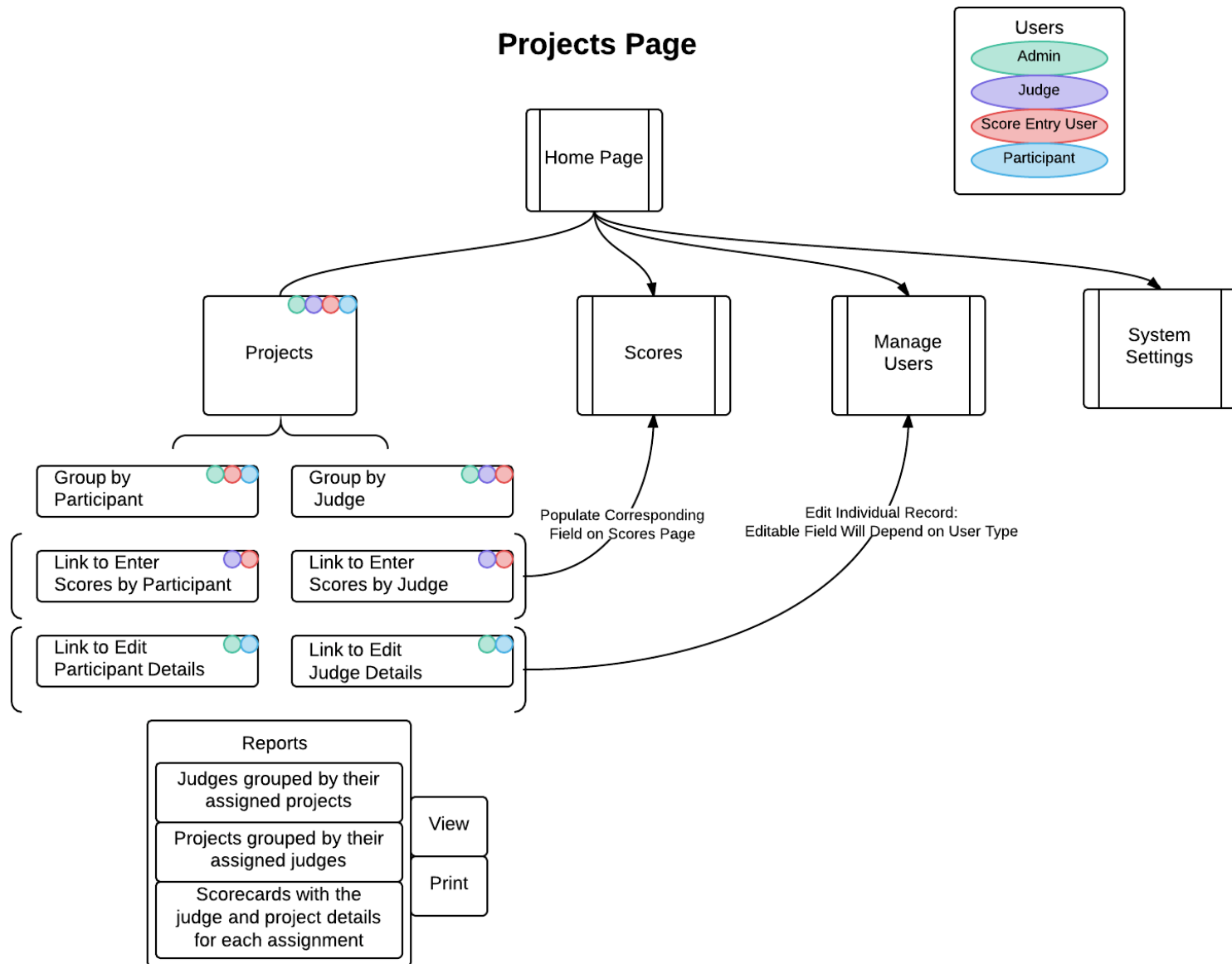


High Level Flow: Main & Sub Pages

Registration / Sign In Process

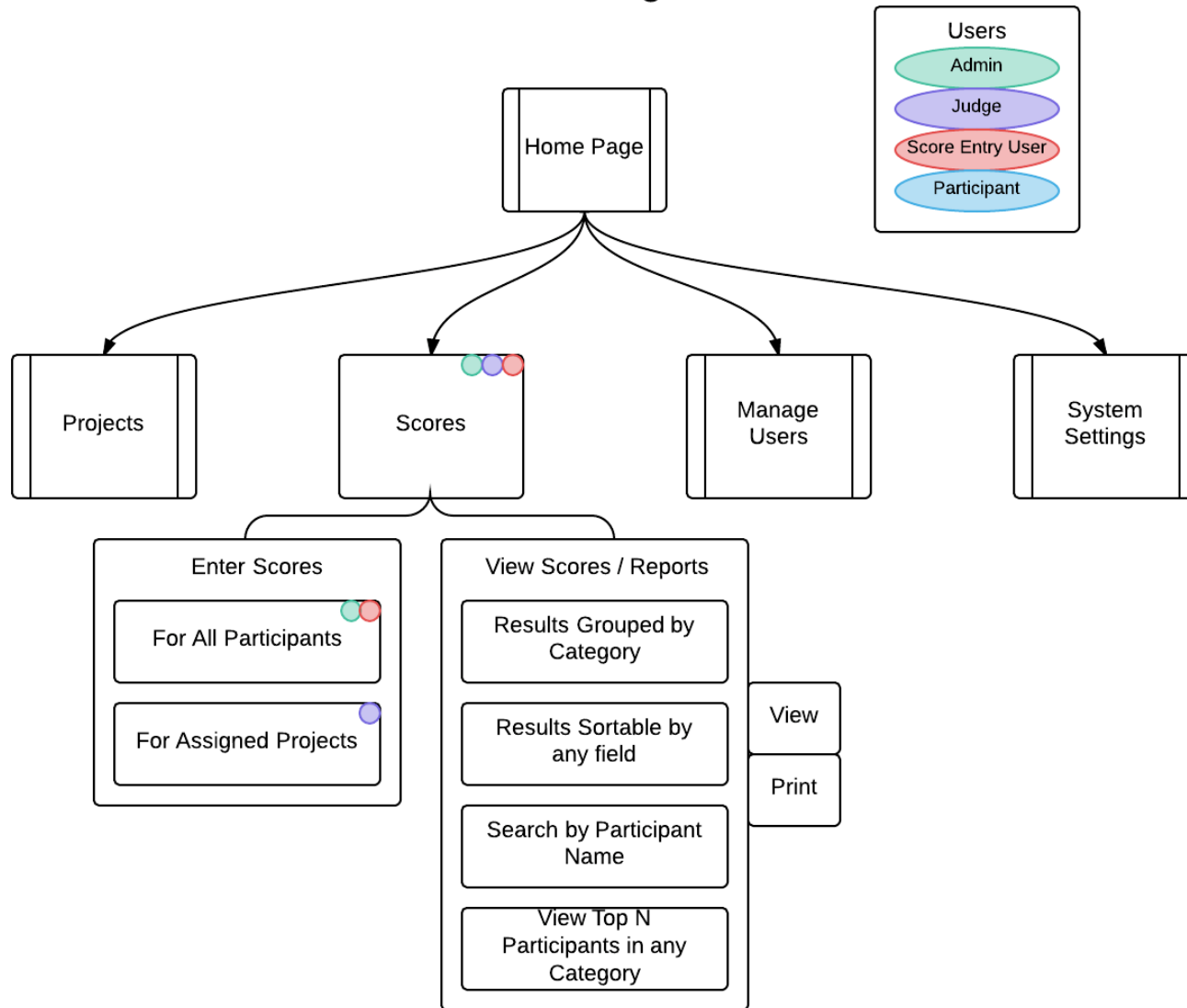


Registration & Sign In Flow

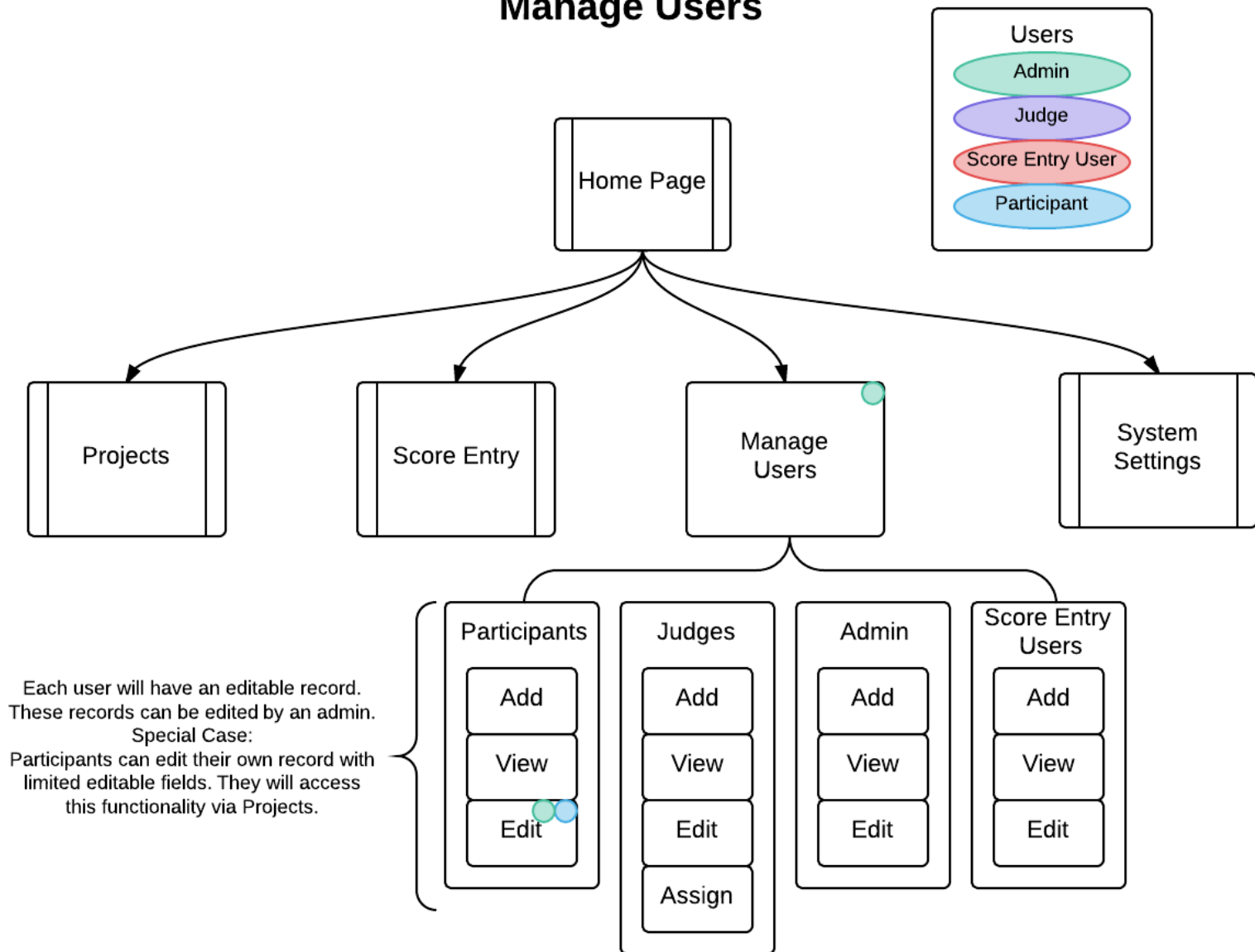


Projects Page

Scores Page

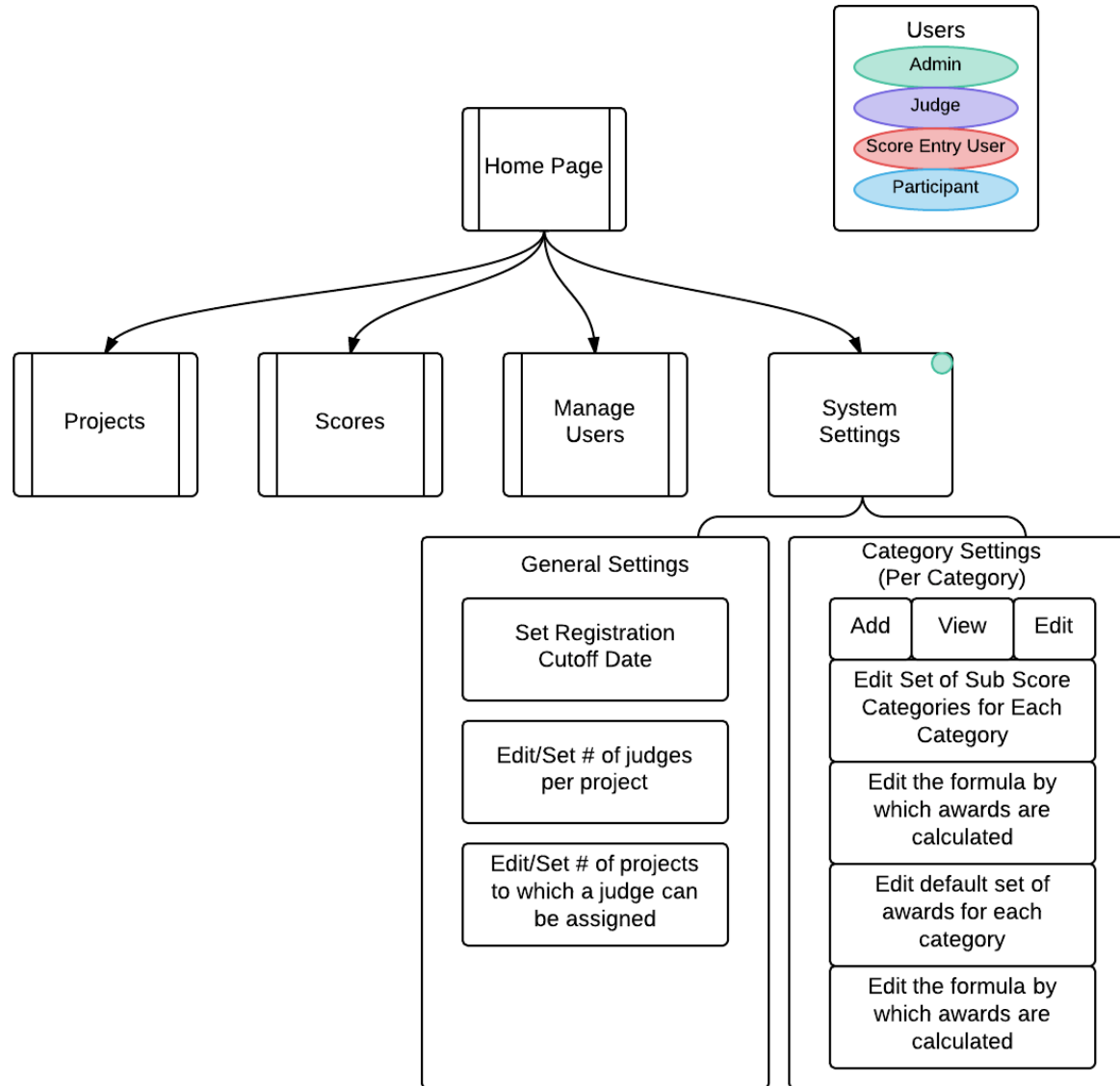


Manage Users



Manage Users Page

System Settings



System Settings Page



Already Registered?

admin

Sign In

Graduate Exhibition Registration and Scoring System

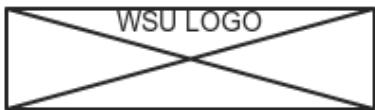
Lorem ipsum dolor sit amet, maiores ornare ac fermentum, imperdiet ut vivamus a, nam lectus at nunc. Quam euismod sem, semper ut potenti pellentesque quisque.

In eget sapien sed, sit dui vestibulum ultricies, placerat morbi amet vel, nullam in in lorem vel. In molestie elit dui dictum, praesent nascetur pulvinar sed, in dolor pede in aliquam, risus nec error quis pharetra.

Participants
Register Here

Judges
Register Here

Mockups: Home Page



Graduate Exhibition Registration and Scoring System

Please fill out the form below to register:

WSU Credentials:

Register As:

Project Category:

Project Title:

Project Description:

Enter Project Description Here

[Clear](#)[Register](#)

[Projects](#)[Scores](#)[Manage Users](#)[System Settings](#)[Participants](#) [Judges](#)[+ Add Participant](#)

Participant Name	Project Title	Project Category	Judges Assigned	Actions
Bettis. Joe	Art Theory in Today's World	Oral Presentation	2/3	
Jackson. Tom	A Masterpiece	Poster	0/3	
Thompson. Nicole	This Is My Project	Poster	3/3	
Zhinger. Allen	A Tasteful Rendition	Oral Presentation	1/3	

[Previous](#)[1](#)[Next](#)[Select Report Type](#)[Print Report](#)

Mockups: Project Page - Grouped by Participants

[Projects](#)[Scores](#)[Manage Users](#)[System Settings](#)[Participants](#) [Judges](#)[+ Add Judge](#)

Judge Name	Department	Assigned Project	Project Category	Actions
Davis. John	English	Art Theory in Today's World	Oral Presentation	
Davis. John	Computer Science	A Masterpiece	Poster	
Williams. Jennifer	Physics	This Is My Project	Poster	
Youngston. Timothy	Physics	A Tasteful Rendition	Oral Presentation	

[Previous](#)[1](#)[Next](#)[Select Report Type](#)[Print Report](#)

Mockups: Projects Page - Grouped by Judges



Projects

Scores

Manage Users

System Settings

Enter Scores

View Scores

Judge

Participant

[Category]

Sub Category 1

Criteria 1

Criteria 2

Criteria 3

Sub1 Total

Sub Category 2

Criteria 1

Criteria 2

Sub2 Total

Sub Category 3

Criteria 1

Criteria 2

Criteria 3

Criteria 4

Sub3 Total

Sub Category 4

Criteria 1

Criteria 2

Sub4 Total

Total Score:

Clear

Calculate

Submit

Mockups: Scores Page - Enter Scores



Projects

Scores

Manage Users

System Settings

Search by Last Name

Enter Scores / View Scores

Select a Category

Entries Shown

Participant Name	Project Title	Project Category	Total Score
Bettis. Joe	Art Theory in Today's World	Oral Presentation	240/300
Score Breakdown:	Content: 65/100	Style: 75/100	Length: 100/100
Jackson. Tom	A Masterpiece	Poster	235/300
Thompson. Nicole	This Is My Project	Poster	189/300
Zhinger. Allen	A Tasteful Rendition	Oral Presentation	150/300

Previous 1 Next

Select Report Type Print Report

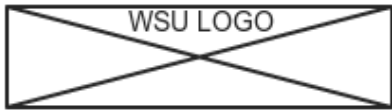
Mockups: Scores Page - View Scores

[Projects](#)[Scores](#)[Manage Users](#)[System Settings](#)[+ Add Participant](#)[Participants](#)[Judges](#)[Score Entry Users](#)[Admin](#)

Name	↕	Status	↕	Actions
Bettis. Joe		Active		
Jackson. Tom		Active		
Thompson. Nicole		Active		
Zhinger. Allen		Active		
Zynder. Bryan		Pending		

[Previous](#)[1](#)[Next](#) [Activate All](#)

Mockups: Manage Users Page - Participants

[Projects](#)[Scores](#)[Manage Users](#)[System Settings](#)[+ Add Judge](#)[Participants](#) [Judges](#) [Score Entry Users](#) [Admin](#)

Name	Status	Actions
Davis. John	Active	
Williams. Jennifer	Active	
Youngston. Timothy	Active	
Yupper. Tad	Pending	

[Previous](#) [1](#) [Next](#) [Activate All](#)

Mockups: Manage Users Page - Judges



Projects

Scores

Manage Users

System Settings

Add Score Entry User

Participants Judges Score Entry Users Admin

Name	↕	Actions
Cards. Julia		<input type="button" value="✎"/> <input type="button" value="🗑"/>
Fredricks. Fred		<input type="button" value="✎"/> <input type="button" value="🗑"/>
Johnson. John. Timothy		<input type="button" value="✎"/> <input type="button" value="🗑"/>
Thompson. Tom		<input type="button" value="✎"/> <input type="button" value="🗑"/>

Mockups: Manage Users Page - Score Entry Users



Projects

Scores

Manage Users

System Settings

[+ Add Admin](#)

[Participants](#) [Judges](#) [Score Entry Users](#) [Admin](#)

Name	↕	Actions
Bankman. John		✎ 🗑
Jensen. Jan		✎ 🗑
Teddy. Ted		✎ 🗑
Sampson. Sam		✎ 🗑

[Previous](#) [1](#) [Next](#)

Mockups: Manage Users Page - Admin

[Projects](#)[Scores](#)[Manage Users](#)[System Settings](#)

User Type

Participant

Name

Joe

Bettis

Status

Active

Category

Art Project

Project Title

Art Theory In Today's World

Project Description

Lorem ipsum dolor sit amet, maiores ornare ac fermentum, imperdiet ut vivamus a, nam lectus at nunc. Quam euismod sem, semper ut potenti pellentesque quisque. In eget sapien sed, sit dui vestibulum ultricies, placerat morbi amet vel.

[Delete User](#)[Cancel](#)[Save](#)

Mockups: Manage Users Page - Edit Individual Record



Projects

Scores

Manage Users

System Settings

General

Project Categories

Registration Cutoff Date

12/01/2013



Max Number of
Judges Per Project

3

Max Number of
Projects Per Judge

3

Restrict Access to Only
Essential Users

No



Manually Backup the System

Enter Filename

Backup

Cancel

Save

Mockups: System Settings Page - General Settings



Projects

Scores







Manage Users

System Settings

General

Project Categories

+ Add Category

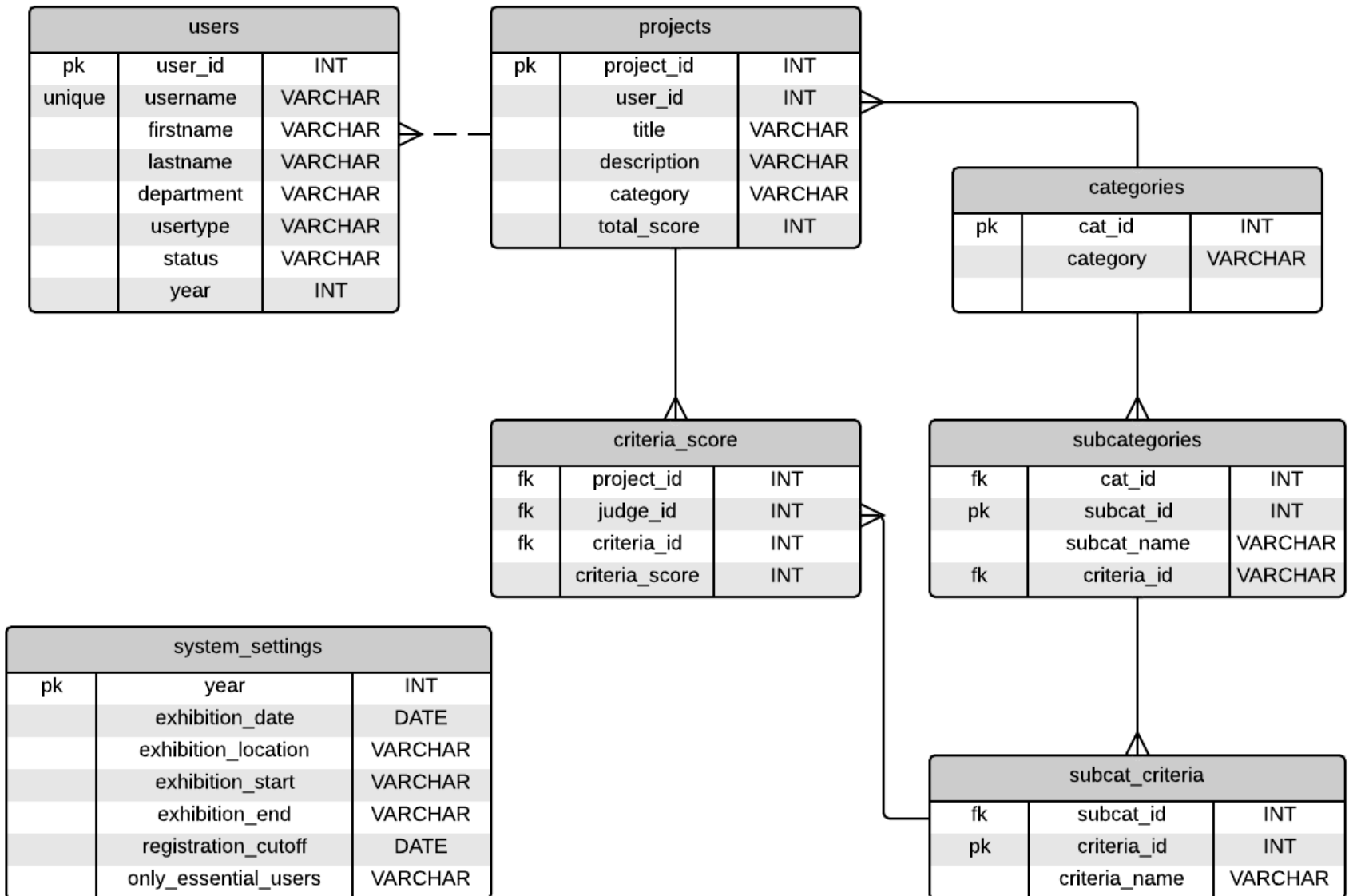
Category	Sub Categories	Points Possible	Actions
Art Project	3	100	 
Poster	4	150	 
Oral Presentation	3	200	 

Previous

1

Next

Mockups: System Settings - Category Settings



Database ERD - Work in Progress