ActiScore:

A KTU ACTIVITY POINT MANGEMENT SYSTEM

GUIDED BY

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PROBLEM STATEMENT

- The Kerala Technological University (KTU) community thrives on a diverse range of extracurricular activities that enrich students' overall educational experience.
- These activities encompass sports, cultural events, workshops, seminars, community service, and more.
- The current process of managing activity points lacks efficiency and transparency, leading to various challenges for students, faculty, and administrators. To address these issues, there is a pressing need for a comprehensive Activity Point Management System (APMS) tailored to the specific requirements of KTU.

INTRODUCTION

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- The Activity Points Management System focuses on organization of activity points.

- Features – uploading, storing, getting real–time data, point updating.

- There shall be three user types, Student, Teacher and Admin with different interfaces.

- The system will be efficient, hassle–free, and organized.

LITERATURE SURVEY

Study of Existing system:

- Current system revolves around a dedicated google drive designated by the faculty.

- After verifying the certificates, teachers enter the points into the university website.

- The Students will be able to check their KTU profile for updated points.

Limitations:

- Limited

  Transparency

- Scalability challenges

- Security Concerns

- Inefficient Tracking

- Limited Organisation

- Poor User experience

METHODOLOGY AND DESIGN

1. **Requirements Gathering:**
   a. Identify key features, such as activity proposal submission, point allocation criteria, verification process, communication channels, and reporting capabilities.

2. **System Analysis and Design:**
   a. Create use case diagrams, sequence diagrams, and entity–relationship diagrams to illustrate system functionalities and interactions.
   b. Determine the technology stack, considering factors such as scalability, security, and usability.

3. **Prototyping and Iterative Development:**
   a. Develop prototypes of the KTU Activity Point Management System to gather feedback from stakeholders.

4.Interface Design:

- Design intuitive and user-friendly interfaces for students, faculty, and administrators, considering accessibility and ease of navigation.

- Incorporate features such as activity submission forms, dashboards for tracking points, and notification systems for updates and reminders.

5.Backend Development:

- Build the backend infrastructure for data storage, processing, and authentication.
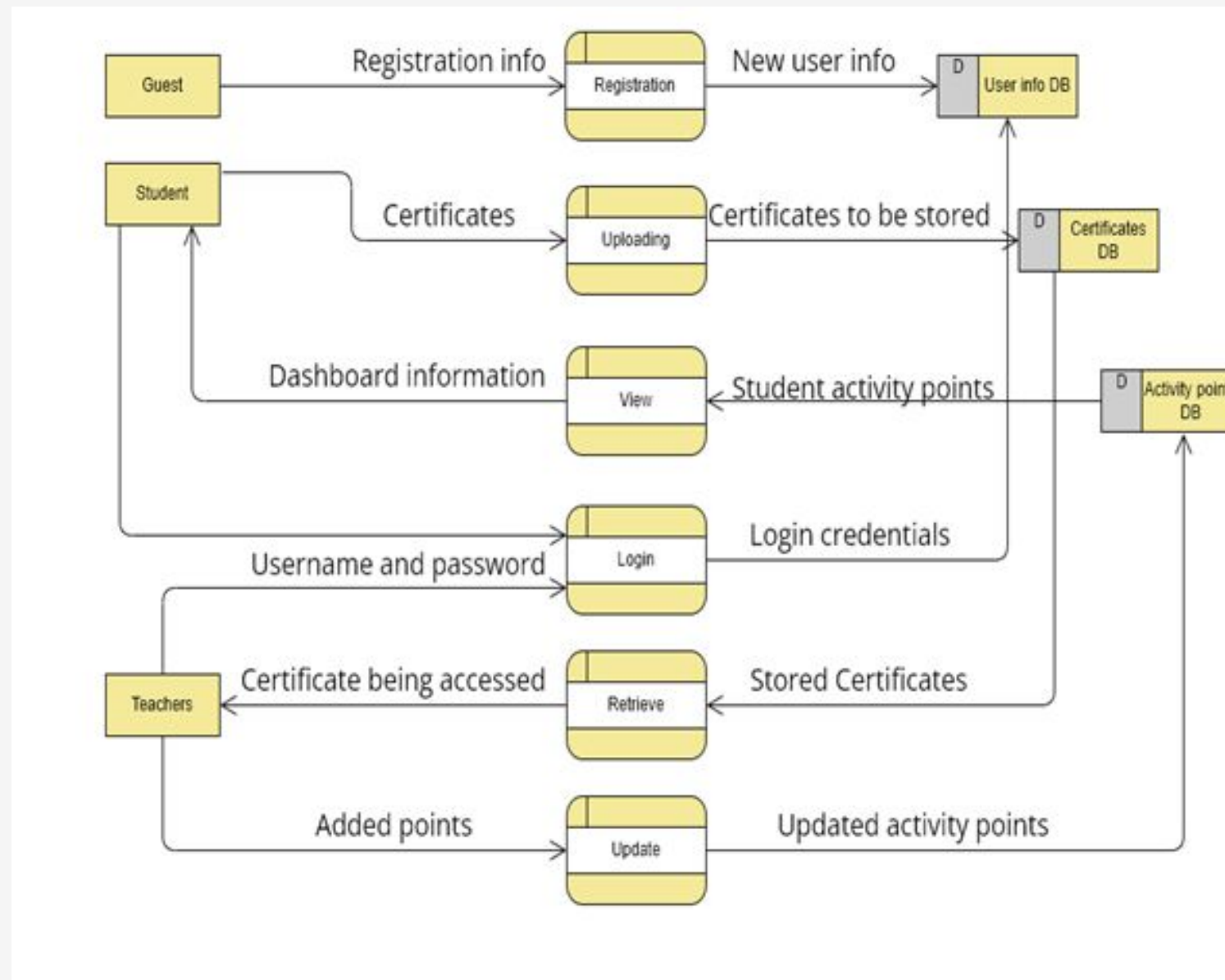
6.Integration and Testing:

- Integrate the KTU Activity Point Management System with existing KTU systems, such as student databases and authentication mechanisms.

- Conduct thorough testing, including unit tests, integration tests, and user acceptance testing, to identify and resolve any bugs or issues

USE CASE DIAGRAM
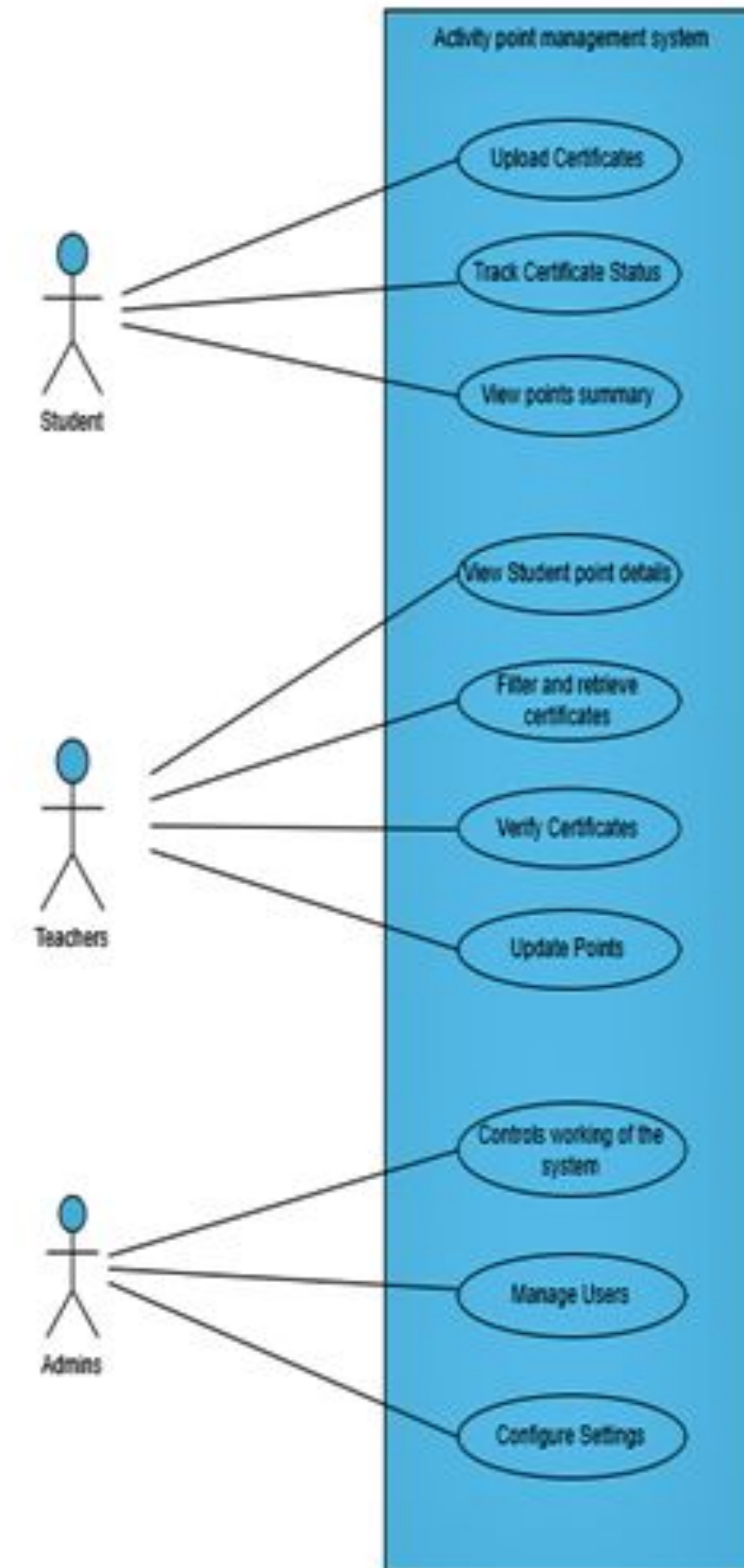
DATA FLOW DIAGRAM:

CLASS DIAGRAM:

ER- DIAGRAM:

Press F11 to exit full screen
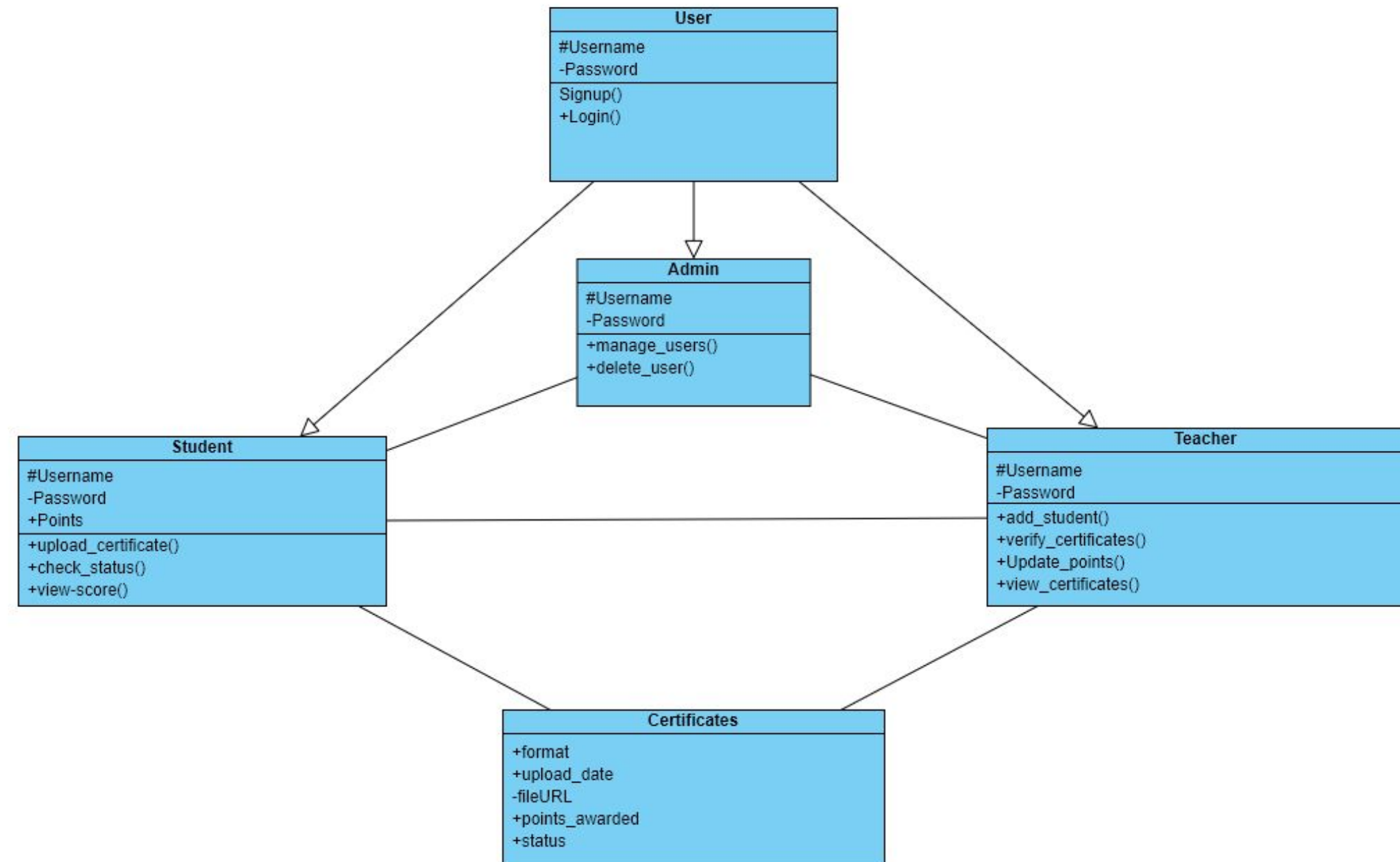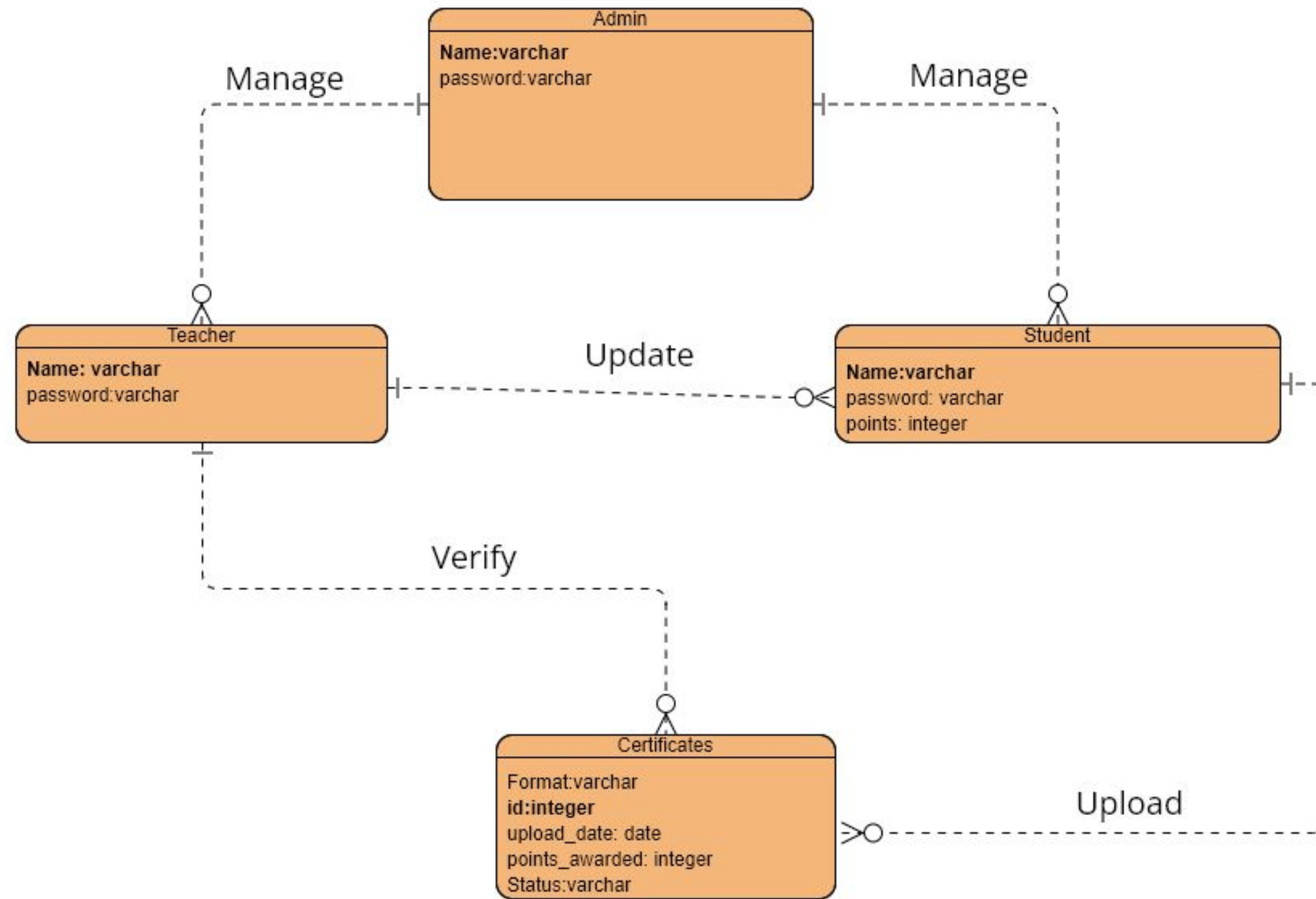
Activity point management
Made a breeze!

ActiScore is a website aimed at assisting teachers and students to easily manage and track their KTU activity points.
A centralised system that provides ability to efficiently manage student activity points and their certificates, offers progress visibility to students and more.

Join Us

Sign-Up

Username

Register Number

Batch
9

Password

Confirm Password

Register

Login

Username:

Password:

Login

ActiScore

- **Dashboard**
- Add Certificate
- Notifications
- Update info

LogOut

Activity Points

25

🕓 See Updates

My Activities

Sort By: Name | Date | Points

No	Name	Category	Level	Date	Approved status	Points	Certificate
1	activity for music	Music	3	May 7, 2024	Yes	25	🖼

ActiScore

- Dashboard
- **Add Certificate**
- Notifications
- Update info

Upload

Name

Category

Start Date

dd-mm-yyyy

End Date

dd-mm-yyyy

Certificate

Choose File | No file chosen

Submit

LogOut

Dashboard

Add Certificate

Notifications

Update info

My notifications

Activity Request Deleted

Your activity zhellowguys for Games was Rejected.

✕

Activity Request Approved

Your activity activity for music for Music was approved and was awarded 25 points.

✕

LogOut

Dashboard

Add Certificate

Notifications

Update info

Update

Username:

| emil_antony |

Name:

| |

Reg No:

| |

Password:

| |

Confirm Password:

| |

Update

LogOut

Home Page

Certificates

Activity approval

Update info

Add Students

No	Name	Reg No

Student List

No	Student Name	Register No	Points
1	abhishek_m	AIK21CS001	0
2	abin_antony	AIK21CS002	0
3	abin_tomy_m_t	AIK21CS003	0
4	ahsana_k_a	AIK21CS004	0
5	aidrin_prince	AIK21CS005	0
6	akthhar_m_s	AIK21CS006	0
7	aldred_fernandez	AIK21CS007	0
8	aleena_joshy	AIK21CS008	0
9	alend_jaimon	AIK21CS009	0
10	alphia_jose	AIK21CS010	0
11	alrik_jervis_biveira	AIK21CS011	0
12	amana_parvin	AIK21CS012	0

LogOut

My Students

- Home Page
- **Certificates**
- ✓ Activity approval
- ✏ Update info

🚪 LogOut

Select Student

Sort By: | Name | Regno | Points |

abhishek_m
RegNo: AIK21CS001

Points: 0

abin_antony
RegNo: AIK21CS002

Points: 0

abin_tomy_m_t
RegNo: AIK21CS003

Points: 0

ahsana_k_a
RegNo: AIK21CS004

Points: 0

aidrin_prince
RegNo: AIK21CS005

Points: 0

akthhar_m_s
RegNo: AIK21CS006

Points: 0

aldred_fernandez
RegNo: AIK21CS007

Points: 0

aleena_joshy
RegNo: AIK21CS008

Points: 0

Student Activities

Home Page

Certificates

Activity approval

Update info

wasasdasd Activities

Sort By: | Name | Date | Points

No	Name	Category	Level	Start Date	End Date	Points	Certificate
1	asdasduui	N S S	--	April 11, 2024	April 13, 2024	60	
2	trial activity	Sports	5	Jan. 17, 2024	Jan. 24, 2024	80	

LogOut

ActiScore

- 👥 Home Page
- 📂 Certificates
- ✓ **Activity approval**
- ✏️ Update info

Activity Request List

No	Name	Reg No	category	
1	internship	AIK21CS024	Industrial Training/ Internship	View

Level: --   **Points awarded:** 20

Start Date: May 7, 2024   **End Date:** May 7, 2024

🖼 Certificate

Approve   Reject

🔓 LogOut

ActiScore

Home Page

Certificates

Activity approval

Update info

LogOut

Update

Username:

sampleteacher2

Name:

Password:

Confirm Password:

Update

PROJECT PROGRESS

1. Added a homepage containing a brief description of the website and with links to the signup and login

   page.

2. Created a user database model for signup and authentication as either student or teacher.

3. Secure storage of user passwords using PBKDF2 algorithm with a SHA256 hash.

4. Implemented the registration and authentication forms.

5. Created teacher and student homepage.

6. Implemented mechanism for teachers to approve student account creation requests.

7. Implemented mechanism for students to upload activities and for teachers to view the same.

8. Implemented upload activity validations to ensure the points does not pass the limit for category

PROJECT PROGRESS

8.Provided dashboard for teacher contains the assigned students information.

9.Provided dashboard for students to identify the certificates uploaded.

10.Implemented user info updation facility.

11.Grouped the certificates uploaded by by the students in separate folders with with student name

in the teacher's page.

12. Implemented page for teachers to view activity upload requests and approve or reject requests.

12. Implemented notification system for students to track activity requests updates.

Contributions:

1. **Ashwin Tom:**

   Website Homepage

   Activity model and population

   Activity Upload page

2. **Vinayak D:**

   Login page

   Notification System

   User info change system

3. **Anandalakshmi C J:**

   SignUp Page

   Both Teacher view student Activities Pages

4. **Emil Antony:**

   Overall Backend and Models

   Both Teacher and Student Homepages

   Activity approval and reject system

   Student account request system and its handling

TIMELINE

01
- Requirement gathering surveys
- Design system architecture
- design frontend and backend components

02
- Implement different components.
- Develop core functionality of the system

03
- Implement the data structures of system using **Sqlite**

04
- Test and prepare the system for deployment.

CONCLUSION

- The KTU Activity Point Management System represents a pivotal advancement in our university's approach to student engagement and recognition. Through this innovative platform, students gain not only a means to track their extracurricular achievements but also a pathway to holistic personal and professional development.

Key takeaways from our discussion include:

1. **Enhanced Transparency and Accountability**:

2. **Promotion of Holistic Development:**

3. **Preparation for Future Success:**

4. **Community Building and Engagement:**

5. **Seamless certificate verification:**