

EXAM CELL AUTOMATION SYSTEM

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- Introduction
- Scope of Project
- Relevance of Project
- Requirement Analysis
- Development Methodology
- Design
 - DFD
- Project Progress
 - Current Status
 - Result
 - Pending Works
- Project Plan
- Conclusion
- Git History Screenshot
- Reference

Introduction

- Focuses on developing a project named "Exam Cell Automation System".
- Uses modern web technologies to automate key examination tasks.
- Ensures smooth operations within educational institutions.
- Contributes to a more organized and efficient examination environment.

Scope of the Project

- Offers the user to easily handle exam related procedures.
- Enables the user to generate Admit Cards via online.
- Enables students to easily detect the examination centers and the examination halls.
- Allows students to register for exams via online.

Relevance of the Project

- Helps in saving the time of user.
- Provides security for the examination procedures.
- Conduct online exams in a systematic manner.

Requirement Analysis

i) Existing System

- Existing Exam registration procedures are very hard.
- Lack of organization can cause misunderstanding.

ii) Proposed System

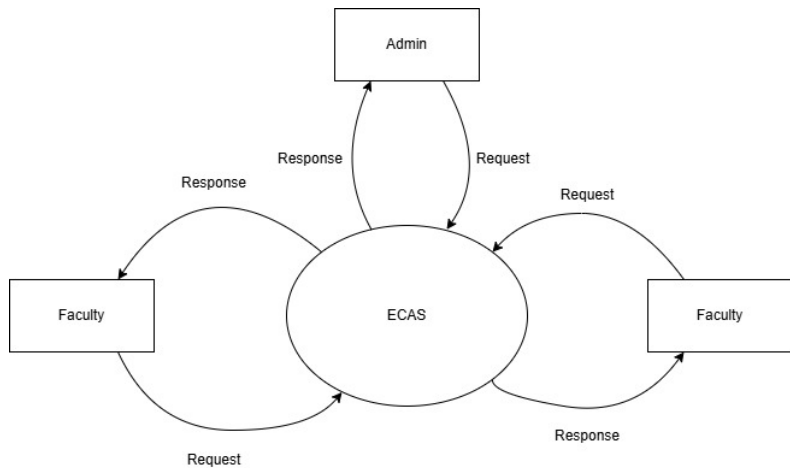
- Generate admit cards via online.
- Seat Allotments as provided online.
- Arrangement of online examinations.

iii) S/W and H/W Requirements

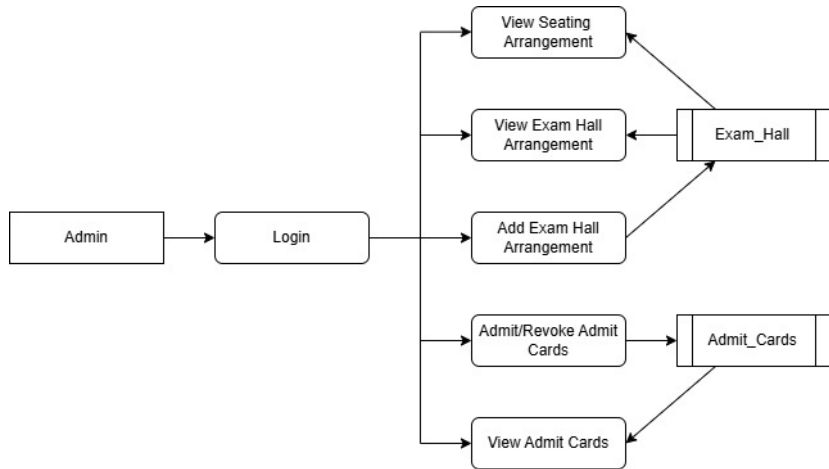
- Needs a web browser such as Google Chrome or Microsoft Edge.
- A system with 4GB RAM and over 50GB of storage space.
- Windows 8 or above version is required.
- Backend: Python, Django
- Frontend: HTML, CSS, JavaScript
- Database: PostgreSQL

Development Methodology

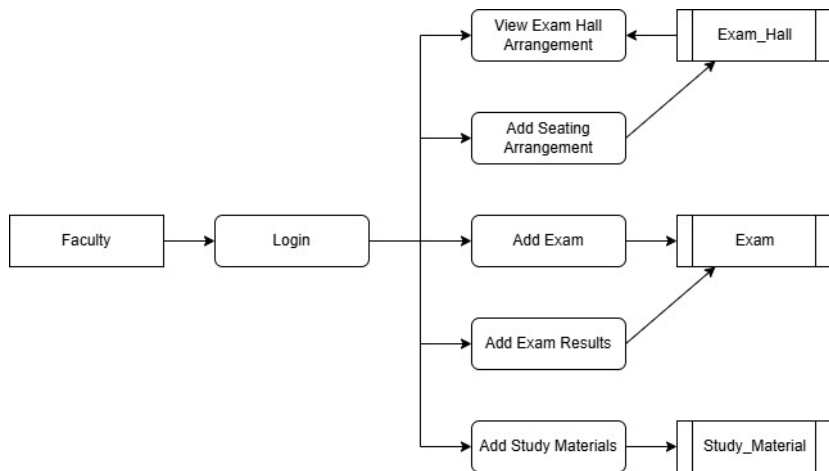
- Exam Cell Automation System uses scrum methodology for its development.
- The proposed system uses Postgresql database management system for development.
- The front end is developed using HTML,CSS,Javascript while the back end is developed underPython and Django as framework.
- Conduct various testing over several devices.



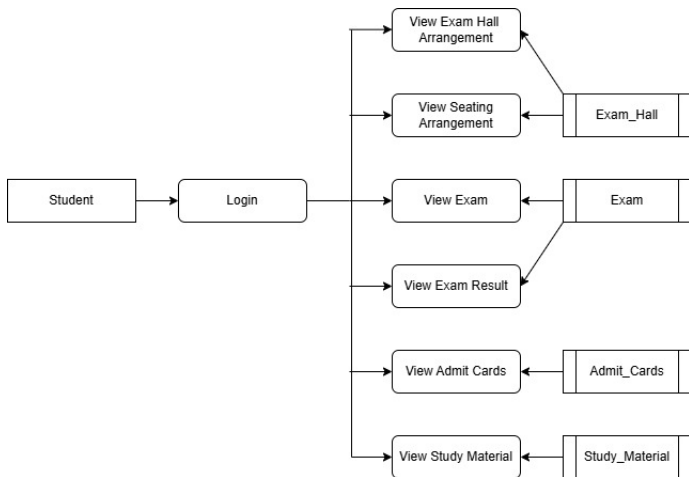
Level 0 dfd



Level 1 dfd Admin



Level 1 dfd Faculty

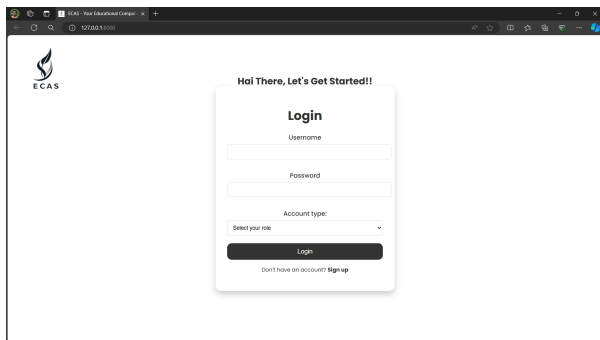


Level 1 dfd student

Current Status

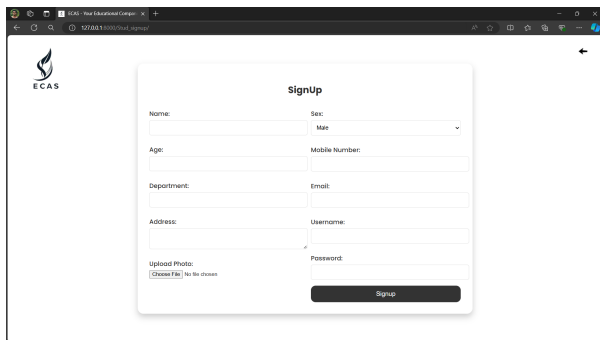
- Developed a virtual environment and application for the project.
- Developed a database for the project.
- Development of frontend under progress.
- Development of backend under progress.
- Admin, Faculty and User dashboards are under development.

Results



The screenshot shows a web browser window with the title "ECAS - Your Educational Companion". The address bar shows "127.0.0.1:5500". The page features the ECAS logo on the left, which consists of a stylized flame icon above the text "ECAS". In the center, there is a white card with a shadow. At the top of the card, it says "Hai There, Let's Get Started!!". Below this is the heading "Login". The card contains three input fields: "Username", "Password", and "Account type:". The "Account type:" field is a dropdown menu with the text "Select your role" and a downward arrow. Below the input fields is a dark grey "Login" button. At the bottom of the card, there is a link that says "Don't have an account? [sign up](#)".

Login page



The screenshot shows a web browser window with the address bar displaying "127.0.0.1:5000/Student_signup". The page features the ECAS logo on the left and a central "SignUp" form. The form contains the following fields and controls:

- Name:** A text input field.
- Sex:** A dropdown menu with "Male" selected.
- Age:** A text input field.
- Mobile Number:** A text input field.
- Department:** A text input field.
- Email:** A text input field.
- Address:** A text input field.
- Username:** A text input field.
- Password:** A text input field.
- Upload Photo:** A button labeled "Choose File" with the text "No file chosen" next to it.
- SignUp:** A dark button at the bottom of the form.

Student Registration

The screenshot shows a web browser window with the address bar displaying "127.0.0.1:5500/search_signup". The page features the ECAS logo on the left and a central "signUp" form. The form contains the following fields and controls:

- Name:** A text input field.
- Sex:** A dropdown menu with "Male" selected.
- Age:** A text input field.
- Mobile Number:** A text input field.
- Department:** A text input field.
- Email:** A text input field.
- Address:** A text input field.
- Username:** A text input field.
- Password:** A text input field.
- Upload Photo:** A button labeled "Choose File" with the text "No file chosen" below it.
- Signup:** A large black button at the bottom of the form.

Teacher Registration

Pending Works

- Database connections needs to be done.
- Visualization Completion: Additional functionality implementation in user, faculty and admin modules.
- Update project documentation and prepare for final review.

Project Plan

Table: Implementation Status and Plan

Task	Status	Remarks
Problem identified	completed	
Diagrams design	completed	
Database and forms design	completed	
Coding	In progress	Planning to complete by 10/10/2024
40 percentage of Project completion	In progress	Planning to complete by 06/09/2024
60 percentage of Project completion	In progress	Planning to complete by 13/09/2024
80 percentage of Project completion	In progress	Planning to complete by 01/10/2024
100 percentage of Project completion	In progress	Planning to complete by 22/10/2024

Conclusion

- The Exam Cell Automation System aims to streamline examination procedures.
- It has the potential to revolutionize how exams are managed.
- Users can benefit from its efficiency and effectiveness.
- Ensure a smooth rollout.
- The system can serve educational institutions.

Git History

```
commit 039cbcef7677b8da3f1510239a11f5ed78de8c65
...skipping...
commit 003c955271a0b6ae7446da91cc2ec290f54c764e (HEAD -> master, origin/master)
Author: Sreedhev M R <sreemr02@gmail.com>
Date: Sun Sep 1 12:02:52 2024 +0530

    updated the frontend

commit f553700129dd898abee449bb9f500fe243503726
Author: Sreedhev M R <sreemr02@gmail.com>
Date: Sat Aug 31 22:16:25 2024 +0530

    updated the frontend

commit f1c562db15ca88cfe7a75def5d0cd617abfda79d
Author: Sreedhev M R <sreemr02@gmail.com>
Date: Sat Aug 31 21:16:04 2024 +0530

    updated the frontend

commit c1975404e3b77f3d9d6e442d43de27f712386e5a
Author: Sreedhev M R <sreemr02@gmail.com>
Date: Sat Aug 31 19:56:51 2024 +0530

    updated the frontend

commit 50818897b1dd94e36c781d9a70f1ee0064861fc8
Author: Sreedhev M R <sreemr02@gmail.com>
Date: Fri Aug 30 12:55:31 2024 +0530

    Started designing frontend

commit 039cbcef7677b8da3f1510239a11f5ed78de8c65
Author: Sreedhev M R <sreemr02@gmail.com>
Date: Fri Aug 30 12:47:59 2024 +0530

    Started designing frontend
```

Git History Screenshot

References

- <https://www.w3schools.com/django/index.php>
- <https://www.w3schools.com/python/default.asp>
- <https://www.w3schools.com/postgresql/>
- <https://github.com/>

Thank you!