
Introduction and System Requirement Study

1. Introduction

1.1 System Introduction

- **DA Utilities** is a web application that can be used to Sell the items like book, inventory etc and conduct group Sessions.

1.2 Why have we selected this definition?

- After doing feasibility study we found that this definition is feasible in terms of timely manner, technology chosen, the past experience and knowledge team members have.
- Also, this project seems to be economically feasible.
- Also, we found that seniors have difficulty in selling books and other stuffs such as table fan when they leave the hostel.
- This website will be helpful to students in conducting the sessions.
- This website will be helpful to the students of DAIICT.

1.3 System Scope

- **Stakeholder:** The main stakeholders are development team, testing team, student, SBG.
- **The conduction** of session can be requested by students and CR or Special Committees can either reject or accept the request.
- Students can put the items on our portal to sell.

1.4 Motivation:

- In the existing system, seniors who are leaving the campus have to mention in Senior-Junior WhatsApp group mentioning that they have a book and they want to sell it in XYZ amount and people who are interested can contact. Also, if some senior is leaving the campus after the graduation, they may want to sell out some of their hostel amenities which they don't want to carry to their home such as table fan, books etc. So, WhatsApp group does not seem to be an appropriate platform for this. Prior to this, no such system exists for online sell where students of DA-IICT can sell their belongings.
- And for the sessions to be conducted, the student who wants to conduct a session has to text in the class group and ensure the availability of cep rooms. No online interface other than WhatsApp is provided for this.

1.5 System Objective:

- The proposed system resolves the above-mentioned issues (Refer Motivation 1.4).
- Using DA-Utilities, any student can sell the items like books, inventory etc without the hassle of involving those matters in WhatsApp group.
- Using DA-Utilities, students can initiate request for sessions to be conducted. Special Committees can ensure the availability and feasibility and either reject or accept the request.

2. System Requirement Study

2.1 Functional Requirements

2.1.1 Signup Related

2.1.1.1 The signup mechanism should be authentic.

2.1.1.2 The inputs that we take for signup are Username, Email Id, Password, Mobile number and Batch.

2.1.1.3 If the user has already signed up, he should not be allowed to sign up again.

2.1.2 Login Related

2.1.2.1 The login mechanism should be authentic.

2.1.2.2 Any student of DA-IICT can log in to the system with either of the three roles. The roles being Admin, Student or special committee.

2.1.2.3 The email has to be confined for DA-IICT domain.

2.1.2.4 If either of the Email Id or password field is incorrect, appropriate prompt will be shown.

2.1.2.5 If the user has not registered already, he has to sign up the form.

2.1.2.6 There should be a mechanism provided to the user in case they have forgotten the password.

2.1.2.7 Upon successful login, the user will be redirected to the dashboard based on his/her role.

2.1.3 Admin related

2.1.3.1 Admin will be provided a dashboard, an interface for Sell, Session and an authority to manage roles for committee members.

2.1.3.2 In the dashboard, the admin should be able to see count of the items that are put on sell, the sessions that are going to be conducted (approved ones), total number of venue and number of batches.

2.1.3.3 In the interface of sell, the admin should be able to see all the items that are put on sell.

2.1.3.4 If some student reports an item to be inappropriate, the admin shall know and delete it.

2.1.3.5 In the interface of sessions, the admin should be able to see all the sessions to be conducted which have been approved.

2.1.3.6 Admin should be able to grant the role of special committee.

2.1.3.7 Admin should be able to add/remove any item type category for sell items.

2.1.3.8 Admin should be able to add/remove any batch type.

2.1.3.9 Admin should be able to delete any student from the system.

2.1.3.10 Admin will be provided with an interface to edit/view/logout of his profile.

2.1.4 Student Related

- 2.1.4.1 Whenever any student logs in, he will be provided a dashboard, an interface for sell and session.**
- 2.1.4.2 Within the dashboard any student can see Item categories that he can put on sell and yet to be conducted sessions.**
- 2.1.4.3 If any student wants to sell any of his belongings, he can put it on sell. He can also mention the sell price, description of item, image of the item.**
- 2.1.4.4 If any student does want to buy that item, he can contact the corresponding individual.**
- 2.1.4.5 If any student wants to conduct a session, he can request a session for it to get approved by special committee.**
- 2.1.4.6 A student can report if an item is inappropriate.**
- 2.1.4.7 A student can view or delete the item he has put on sell.**
- 2.1.4.7 Logged student can edit/view/logout his/her profile.**

2.1.5 Special Committee Related

- 2.1.5.1 Whenever any student logs in as a committee, he will be provided a dashboard, an interface for sell and session.**
- 2.1.5.2 Within the dashboard they can see the items that are put on sell and yet to be conducted sessions.**
- 2.1.5.3 If the student wants to sell any of his item, he can put it on sell. He can also mention the sell price, description of item, image of the item.**
- 2.1.5.4 If any student wants to conduct a session, he can request a session for it to get approved by special committee.**
- 2.1.5.5 The student logged in as a committee member can either accept or reject the session that are requested.**
- 2.1.5.6 To be provided an interface to edit/view/logout his/her profile.**

2.2 Non-Functional Requirements

2.2.1 Performance Requirements

2.2.1.1. The application should be able to operate on all the major web browsers with all its functions.

2.2.1.2. The web application should be responsive i.e. the users must be able to access it through computers, tablet or phone.

2.2.2 Security Requirements

2.2.2.1. The system should provide a secure login to the user and provide access only to the authorized user as security is one of the key requirements of the system.

2.2.2.2. The password must not be shared with anyone.

2.2.2.3. Unauthorized users must not be given write/delete access.