Group Creator

S. R. S. Report – I

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1. Introduction

In this project we can create a group for project as per our choice and technology by registration on our website. In this website, user need to first login to the application by their roll number and user name after that user can registered their name and send request to another person as per their technology choice for creating group so that user can easily find out correct person for their project technology. In this if users want to cancel the request they can cancel easily by clicking on cancel button. For making this application we are using HTML, CSS and Java script for front end and for backend we are using PHP and data base using MySQL.

1.1 Purpose

In this we create our group in minimum days. By the help of this project we can make group as per our interest. As we know very well some student has not there group they want to make group with other mates those have same interest. In this we will not face the problem like unknown team members and different types of technology use by the team members and so on. Generally we try to approach our known people for group but with help of this group we can approach other mates. In this we will give our best with happiness.

1.2 Scope

Developing system on a topic like "Group Creator" has much scope. It is an automated computerized system that will provide online group create and counseling to all types of students. It will be proved effective and efficient in reducing the problems and errors that are faced in the manual system.

It will be a web based online Group Creator system, an online website in which the students can get information about the students who are interested on particular technology according to their academics. They will register themselves and according to their profile they can sent the request to the students and they can accept their requests.

1.3 Definitions, Acronyms, and Abbreviations

SRS: System Requirement Specification

WWW: World Wide Web

GCW: Group Creator Website

Admin: Administrator

MySQL: is a RDBMS based on SQL which is used for adding removing and modifying

Information in the database.

HTML: Hypertext Markup Language
CSS: Cascading Style Sheet

HTTP: Hypertext Transfer Protocol

OS: Operating System

1.4 References

- https://www.youtube.com
- https://www.wikipedia.org/
- http://www.w3school.com
- https://stackoverflow.com/
- https://quora.com/
- https://www.php.com/

1.5 Overview

Our project Group Creator helps students for creating the groups for their mini project and Measure projects both. Student chooses the technology on which technology they want to make their projects. In this student can login and register on our website and their User name and password are their University roll. In this admin can handle the student login, registration and student. In this student can change their password. In this student can sent request and accept the request of the student. In this we are using PHP for back end and HTML, CSS and Bootstrap for front end.

2. General Description

2.1 Product Functions

Online Group creator Management System this website is used to maintain and manage the information of the students. This software help the students to easy access the information of students. This website is also helpful for the administrator because he can easily bring changes to the records of the students.

2.2 User Characteristics

The users of the system are students, teachers and the administrators who maintain the system.The users are assumed to have basic knowledge of the computers and Internet browsing. The administrators of the system to have more knowledge of the internals of the system and is able torectify the small problems that may arise due to disk crashes, power failures and other catastrophes to maintain the system. The proper user interface, user's manual, online help and theguide to install and maintain the system must be sufficient to educate the users on how to use thesystem without any problems

2.3 General Constraints

The information of all the users must be stored in a database that is accessible by the Online Group Creator Management System. The school information security system must be compatible with the Internet applications. The Online Group Creator System is connected to the school computer and is running all 24 hours a day.The users must have their correct usernames and passwords to enter into the Online Student Information Management

2.4 Assumptions and Dependencies

The users have sufficient knowledge of computers.The school computer should have Internet connection and Internet server capabilities.The users know the English language, as the user interface will be provided in English. The product can access the university student database

3. Specific Requirements

This section provides a detailed description of the problem that the software must solve.Information content flow and structure is documented.

3.1 External Interface Requirements

This section provides a detailed description of all inputs and output from the system. It also gives a description of the hardware and software and communication interface and provide basic prototype of the user interface

3.1.1 User Interfaces

All pages of the system are following a consistent theme and clear structure. The occurrence of errors should be minimized through the use of checkboxes, radio buttons and scroll down

inorder to reduce the amount of text input from user. JavaScript implement in HTML in order to provide a Data Check before submission. HTML Tables to display information to give a clear structure that easy to understand by user. Error message should be located beside the error inputwhich clearly highlight and tell user how to solve it. If system error, it should provide the contactmethods. The page should display the project process in different color to clearly reflect thevarious states that student done. Each level of user will have its own interface and privilege tomanage and modify the project information such as supervisor able to monitor/manage his student progress and make comment on it, student can change his detail, view the progress, submitproject idea. The System should provide a feedback form for all users to give comments or asking questions. It should provide a FAQ to minimize the workload of system administrator

3.1.2 Hardware Interfaces

1.4GB s
Pace required for a typical live system with 1000-2000 events.
2. Recommended minimum CPU – Pentium 4, 3.2GHz

Server Side
The web application will be hosted on one of the departments' window servers and connecting toone of the school Oracle Database server. The web server is listening on the web standard port, port 80.

Client Side
The system is a web based application; clients are requiring using a modern web browser such asMozilla Firebox 1.5, Internet Explorer 6 and Enable Cookies. The computer must have anInternet connection in order to be able to access the system

3.1.3 Software Interfaces

Server Side
We will write our server-side scripts in PHP as we can reuse most of our knowledge from writing PHP programs on the desktop and in this we use the django. We will also make use of MySQL to store information.

Client Side
An OS is capable of running a modern web browser which supports HTML version 3.2 or higher.

3.1.4 Communications Interfaces

The HTTP protocol will be used to facilitate communications between the client and server.

3.2 Functional Requirements

Its deals with the functionality required from the system which are as follows:

- The website will help the school to register themselves.
- Only authorized person can access related details

.

- Parents can search according to their vicinity.
- Schools can change their information regarding themselves.
- Administrator will be responsible for updating site.

3.2.1 Functional Requirement or Feature

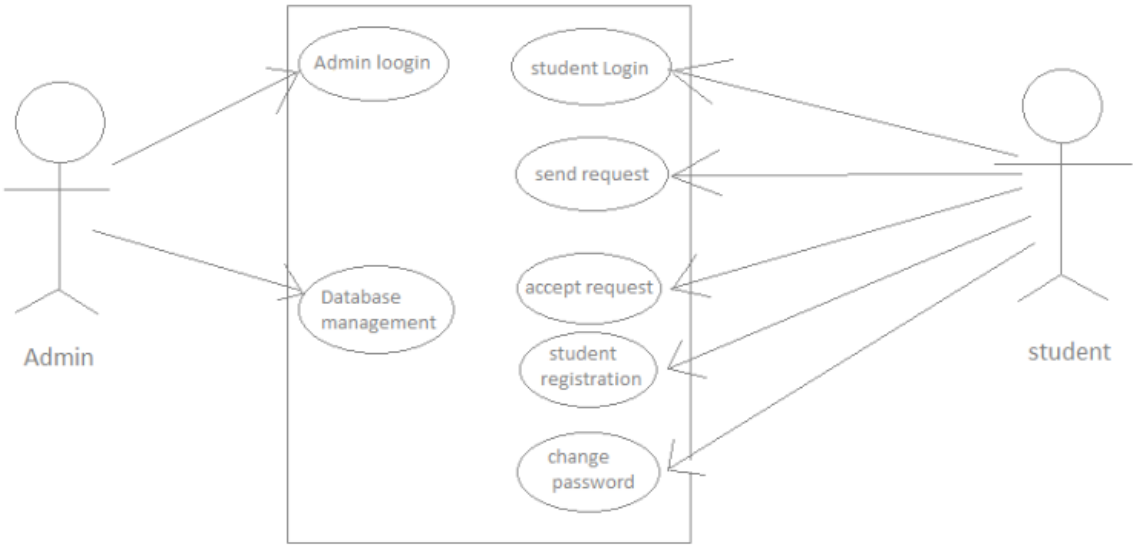
Student:
Student can easily register himself on this portal if he/she is not register already .After this basic step Student can now able use function like, they can send request the other batch mate who is interested in same technology and they can also accept the request of other friends .

Admin:
Admin can manage the whole database of student like, id, password, interested field , technology etc. Admin can also update the student details. Admin can update, delete students records.

3.3 Use Cases

3.3.1 Use Case Diagram

In this use case diagram there are three module Admin and Student Users. Admin can manage the Group creator website in this Admin manage the database entity's. Student can login, registration, send the request and accept or reject the request and can change the password.



3.4 Non-Functional Requirements

Basically, Non-functional requirements describe how the system works, while functional requirements describe what the system should do.
This does not mean the latter are more important, but most requirement gathering techniques focus on functional requirements, so large gaps in non-functional requirements are **common**.

3.4.1 Performance

This subsection specifies numerical requirements placed on the human interaction with the software, as a whole .numerical requirements will include:

- Terminals will be supported at a time.
- Only text information will be supported.

3.4.2 Reliability

Its means the extent to which program with required precision. The website developed should be extremely reliable and score so that information about any questions etc.. is not leaked. The system shall not be down more than 2 times in a year.

3.4.3 Availability

The software will be available only to authorized users like parent can see different schools, admin to add an update/delete school details. Checking that the system always has something to function and always pop up error message in case of component failure. in that case the error message appear when something goes wrong so to prevail availability problems.

3.4.4 Security

The security requirements deals with the primarily security. The software should be handled only by the administrator and authorized users. Only the administrator has right to fill the information of the student in the database
Specific requirement in this area
Could include the need to:

- Utilize certain cryptographic techniques.
- Keep specific log or history data sets.
- Assign certain function to different modules.
- Restrict communications between some areas of the program.
- Check data integrity for critical variable.

3.4.5 Maintainability

The application is to be designed so that it is easily maintained. Also it should allow incorporating new requirements in any module of the system. Backups for database are available.

3.4.6 Portability

The software is a web based application and is built in HTML, Python and MySQL. So it is platform independent and is independent OS. The application will be easily portable on any window based system.

3.5 Logical Database Requirements

In our project we are using MySQL database. In our project we are using PHP. PHP can be used in database applications. One of the most popular databases is MySQL.

MySQL-MySQL is free and open-source software under the terms of the GNU General Public License, and is also available under a variety of proprietary licenses. MySQL was owned and sponsored by the Swedish company MySQL AB, which was bought by Sun Microsystems (now Oracle Corporation).[8] In 2010, when Oracle acquired Sun, Widenius forked the open-source MySQL project to create MariaDB.

MySQL is a component of the LAMP web application software stack (and others), which is an acronym for *Linux*, *Apache*, *MySQL*, *Perl*/*PHP*/*Python*. MySQL is used by many database-driven web applications, including Drupal, Joomla, phpBB, and WordPress. MySQL is also used by many popular websites, including Google[9][10] (though not for searches).

List of student information

Column Name	Data Type	Key Constraints
Student_id	int	Primary key not null
Student_name	char	Not null
Student_section	char	Not null
Student_Technology	char	Not null
School_roll number	int	Not null

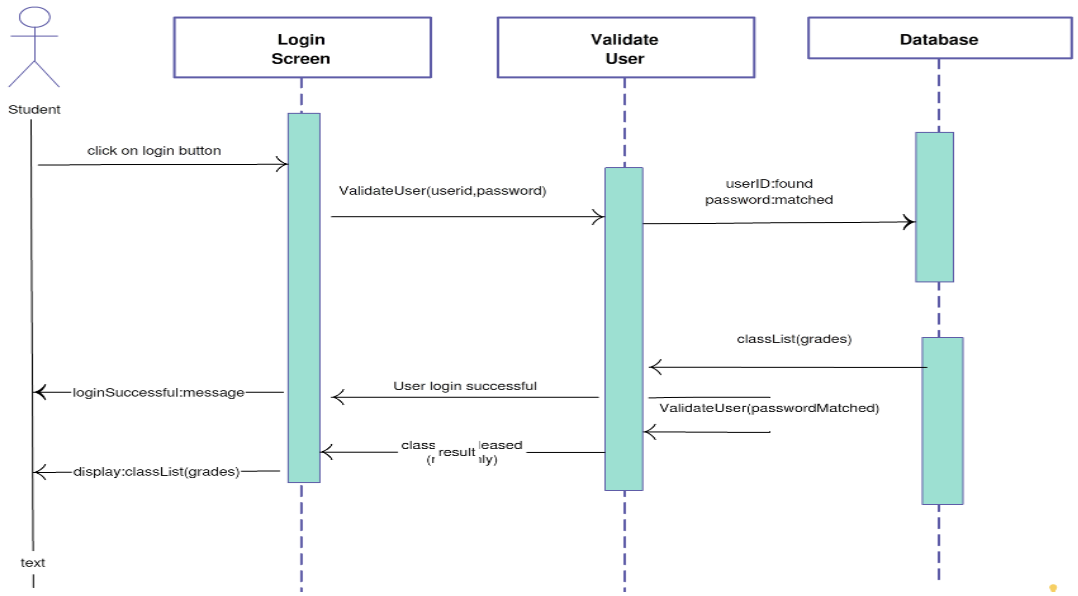
4. Analysis Models

List all analysis models used in developing specific requirements previously given in this SRS. Each model should include an introduction and a narrative description. Furthermore, each model should be traceable the SRS's requirements.

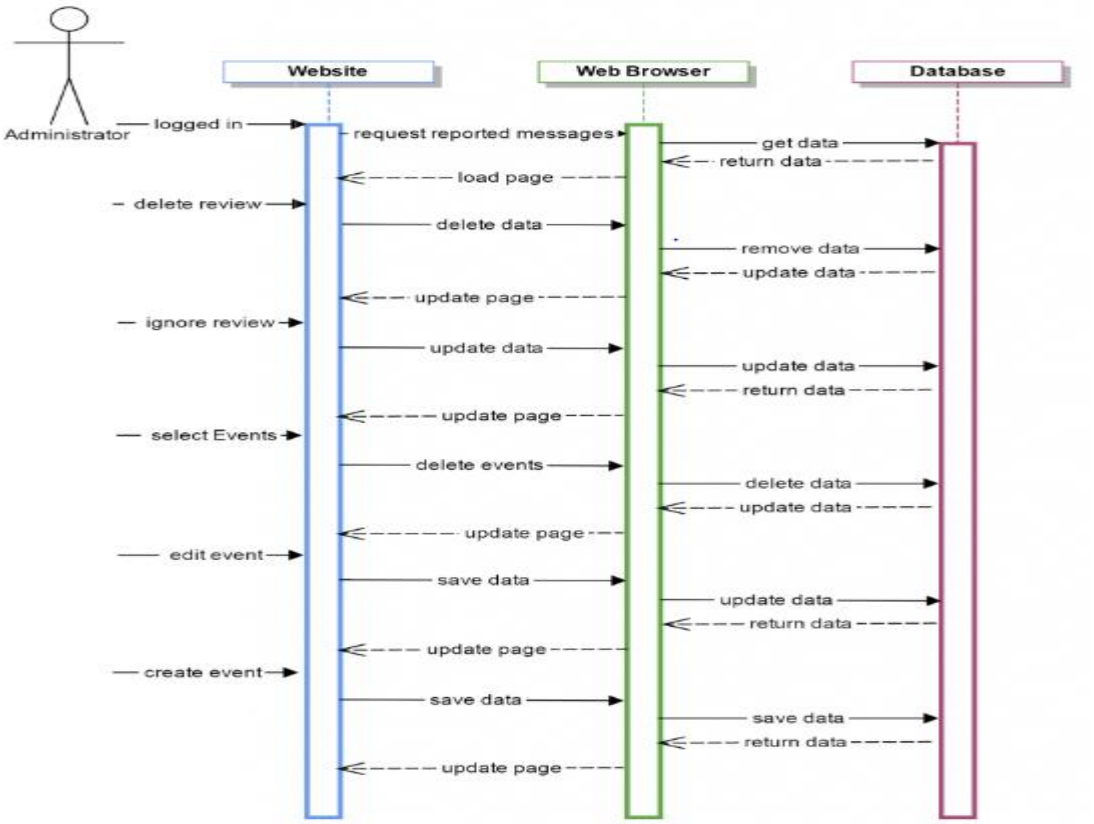
4.1 Sequence Diagrams

Sequence Diagram for Student:-

Group Creator



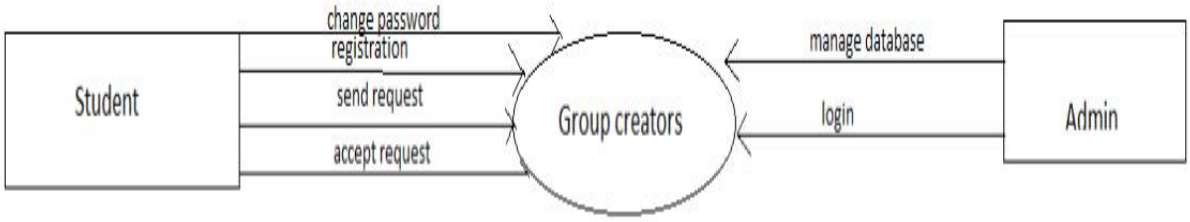
Sequence Diagram for admin:-



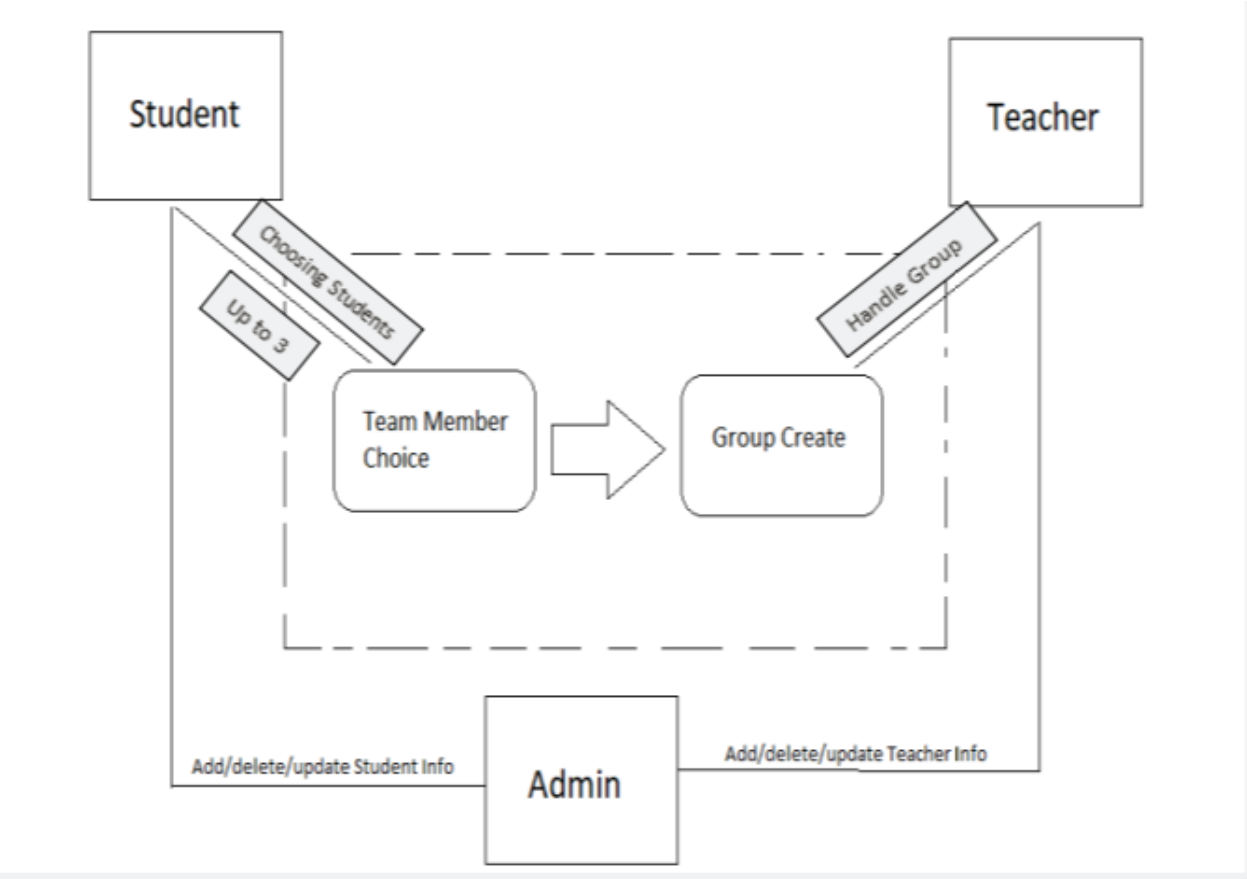
Group Creator

4.2 Data Flow Diagrams (DFD)

Zero level DFD:-

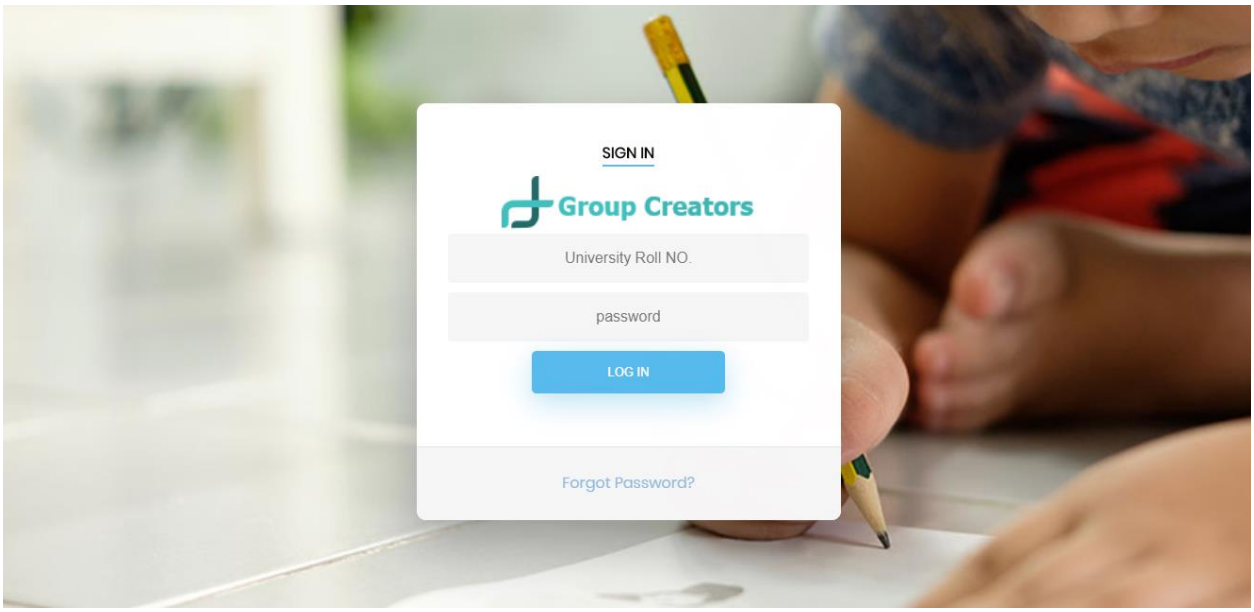


One level DFD:-

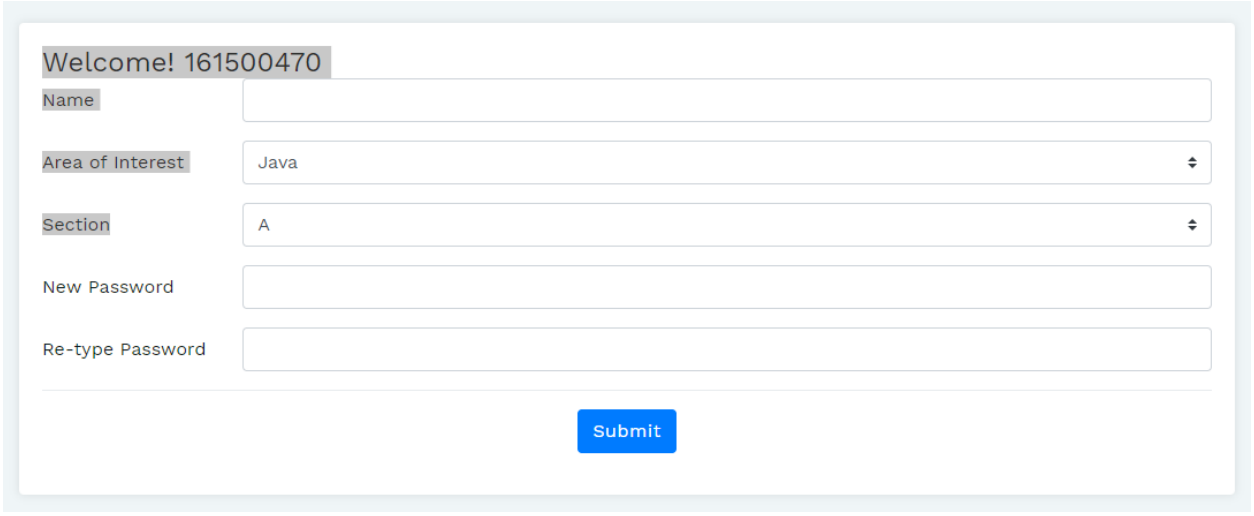


5. Designing Forms

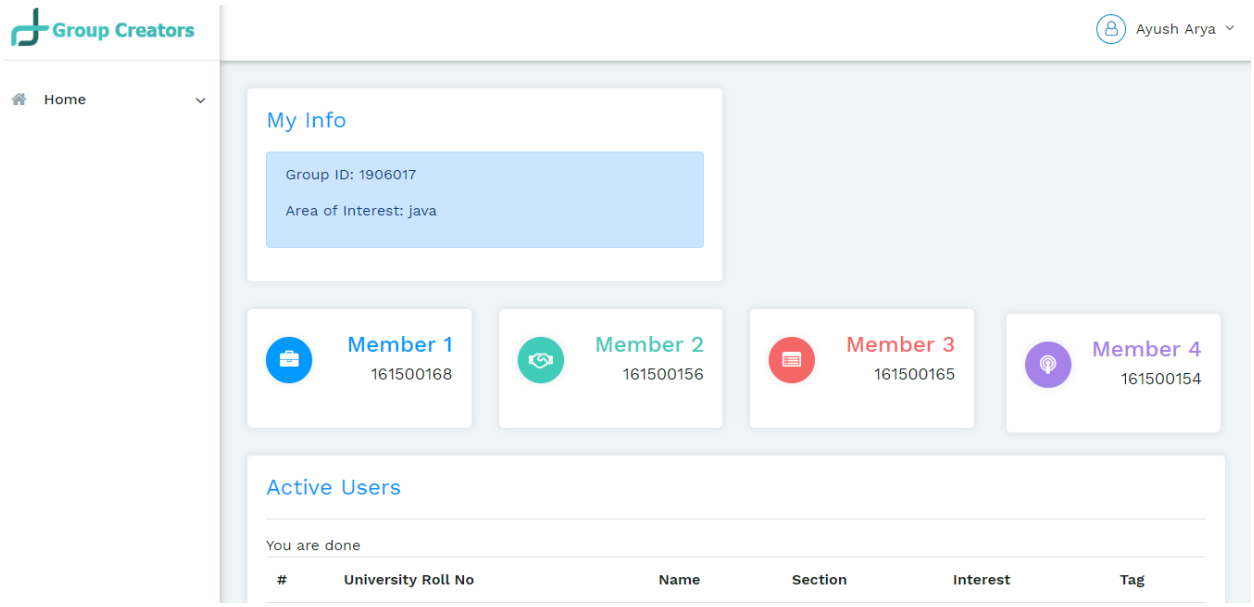
Login Page



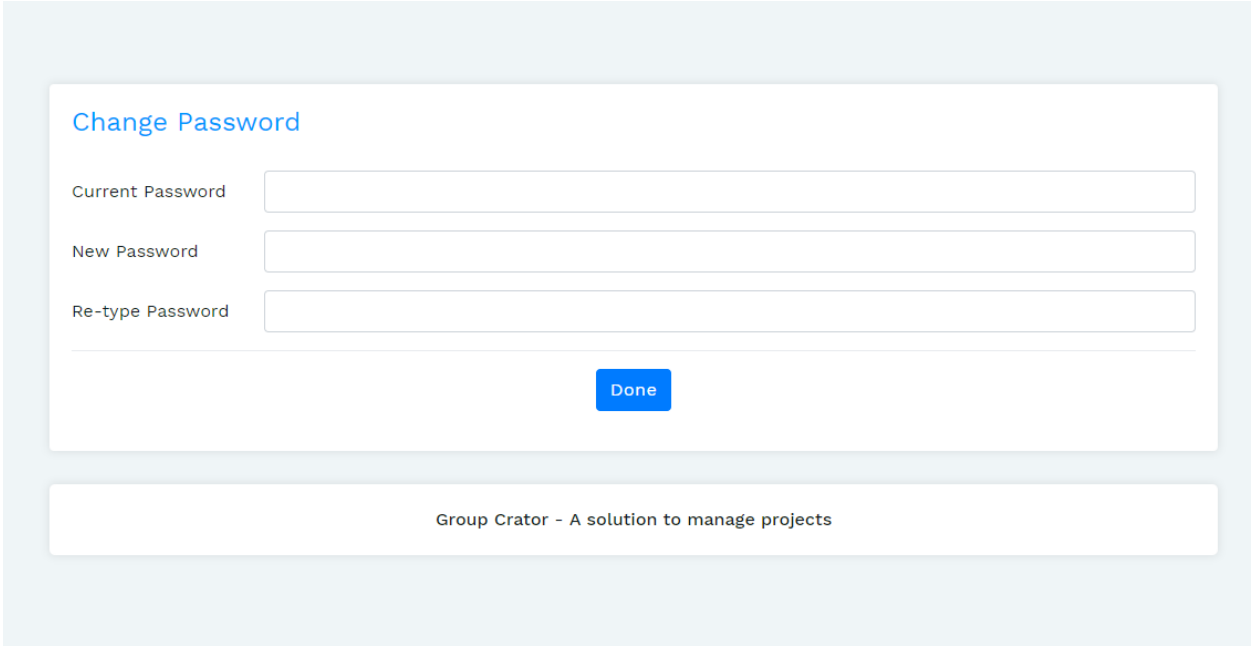
Registration Page



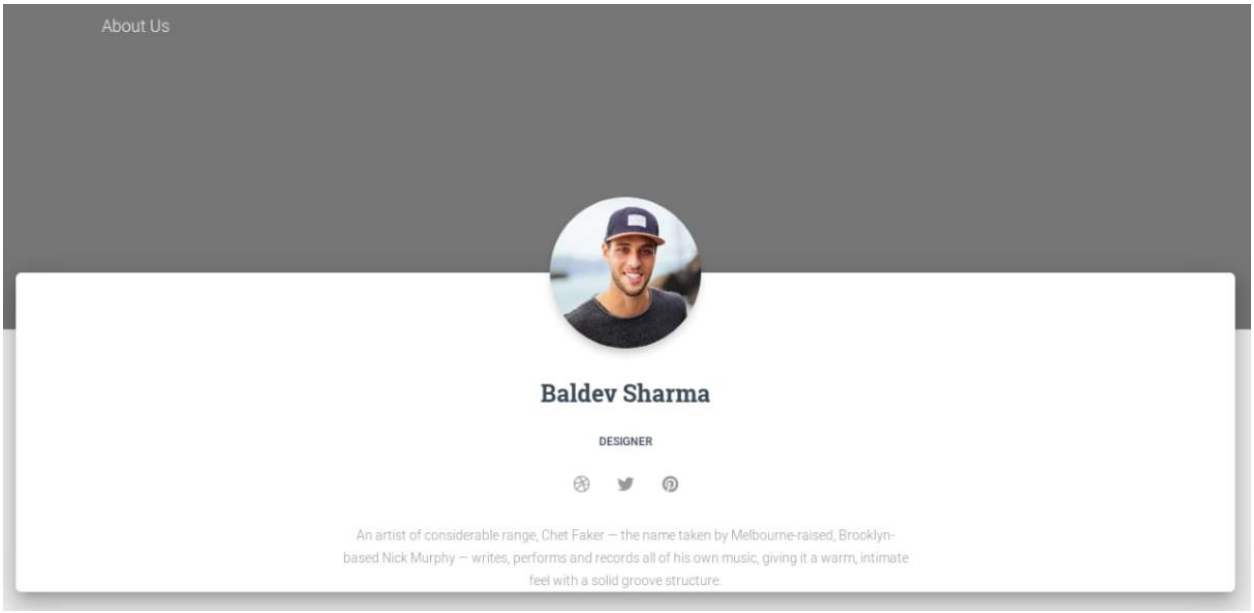
Home Page



Change password



About Us



6. Future Plans

In future we will add more features like we will add chatting system so that student can talk to your team members on portal and students can see the mentors for particular technology project and in this we show some detail about the project like how to create a project and what type of technology we can use on particular project. We can keep record of attendance as to give update to mentor regularly.

7. CONCLUSION

This SRS document is used to give details regarding our project name Group Creators. In this all the functional and non-functional requirements are specified in order to get a clear idea to develop a project. This project is only for students. The main conclusion of this project is That student can make group for their projects.