PS ALLOTMENT SYSTEM

**DOMAIN DESCRIPTION:**

The main objective of this project is to develop an efficient way of allotting PS stations to students. It is for both 2nd-year and 4th -year students who choose 3 preferences based on their branch and every student will be allotted one PS station based on their preference and CGPA.

**FUNCTIONALITY:**

The functionality that we planned to include in our project is as follows:

* Every 2nd year and 4th year student will be able to create his/her own account and corresponding details will be stored in the database and they need to login using their student id and password they need to create during the registration. Students with NC in at least one subject won’t be allowed to register.
* The PS administrator has control over the system and he has the authority to add or remove PS stations from the database and also update the details of any PS station.
* Our system contains the details of many PS stations which will be stored in the database. The details include location, stipend (if any), accommodation (if any) and also the instructor for that station.
* The student can filter out stations on the basis of stipend, accommodation, location and branch.
* The student can search for PS stations and pick 3 preferences of their own. And details of the preferences of every student will be stored in the database.
* The PS administrator can start the allotment process after all the registered students picked their preferences. The admin can notify those students who didn’t pick their preferences.
* Once all the registered students have locked their preferences the admin can start the process which allots the stations based on the CGPA of the student.
* The student can view their allotted PS station after the process and also view the details of each station along with the joining dates.
* The student can request for PS swap with another student but only the admin has the authority to approve the request.

**GUI SCREENS:**

* Login in / Sign Up Page – where the student or the admin can login and an error message will pop up if invalid credentials were used and also will direct to the registration page if not registered yet.
* Registration Page – where the student can create an account by entering his/her details. And he/she won’t be allowed to registered if in case he/she has NC in at least one subject.
* Student Profile Page – where the student can view/edit his/her details.
* Student Home Page – where the student can view his/her preferences.
* PS Stations Search Page – where the student/admin can search PS stations and can also filter out the stations based on branch, stipend, location, accommodation. The student can choose their preferences.
* PS Stations Admin Page – where the admin can add or remove PS stations and can also update details of any station. And can also start the allotment process if all the registered students have locked their preferences, if not then those students are notified.

The admin can view all the details of students and can also approve or reject PS swap requests.

* PS Stations Student Page – where the student can view his /her allotted station. And also receive message from admin (in case they haven’t locked their preferences yet). And also, can send a swap request to admin.

**TECHNOLOGIES AND TOOLS USED:**

We are building this system as standalone application with JAVA Swing used for developing GUI front-end pages along with MySQL database.

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