

LEARNER'S ACADEMY ADMIN PORTAL

Problem Statement:

Learner's Academy is a school that has an online management system. The system keeps track of its classes, subjects, students, and teachers. It has a back-office application with a single administrator login.

Description:

The Administrator can do:

- Set up a master list of all the subjects for all the classes
- Set up a master list of all the teachers
- Set up a master list of all the classes
- Assign classes for subjects from the master list
- Assign teachers to a class for a subject (A teacher can be assigned to different classes for different subjects)
- Get a master list of students (Each student must be assigned to a single class)

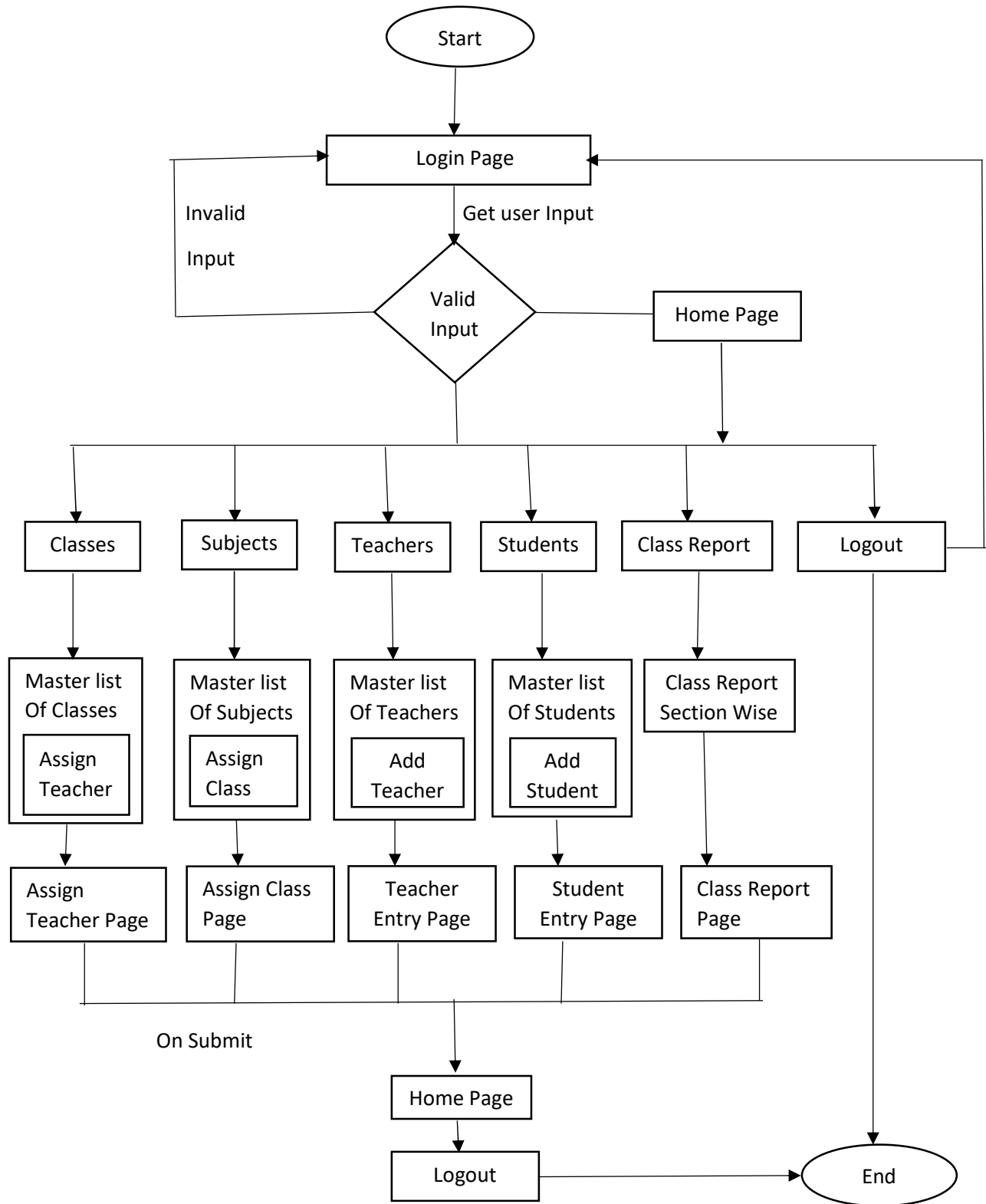
There will be an option to view a Class Report which will show all the information about the class, such as the list of students, subjects, and teachers.

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Sprint Planning: Sprint Duration (1 week)

Sprint	Tasks Achieved
1	Implemented the code for login page, home page that includes the options for operating the portal and styling the interface of the portal.
2	Developed the Jsp files for displaying master list of Classes, Subjects, Teachers, Students and assign classes for subject option, assign teachers to a class for subject options.
3	Developed the servlets and established the connection between servlets and Jsp files. Tested the performance of the portal by performing various operations that are included in the application.

Flow of the Application:



Algorithm:

1. Start the program.
2. Login into the Admin Portal using username and password. If the credentials are valid then home page of the application will be displayed. Else it will through a message “**Login Failed, Invalid Credentials**”.

Note: Use admin for both username and password for login.

3. In home page, left side there are options like

- Classes
- Subjects
- Teachers
- Students
- Class Report

And at the top right there are options like:

- Home
- Logout

- 4.If you click on Classes tab then it will display:

- Master list of all the classes.
- Option to assign a teacher to a class for a subject.

5. If you click on the assign teacher, a form will be displayed you can fill the form and click submit then the teacher will be assigned to a class for a subject.

6. If you click on Subjects tab then it will display:

- Master list of all the Subjects.
- Option to assign classes for subjects from the master list.

7. If you click on the assign class, a form will be displayed you can fill the form and click submit then the class will be assigned to the subject.

8. If you click on Teachers tab then it will display:

- Master list of all the Teachers.
- Option to add a teacher to the master list.

9. If you click on the add teacher, a form will be displayed you can fill the form and click submit then the teacher will be added to the master list of teachers.

10. If you click on Students tab then it will display:

- Master list of all the Students.
- Option to add a Student to the master list.

9. If you click on the add student, a form will be displayed you can fill the form and click submit then the student will be added to the master list of students.

10. If you click on the class report tab then it will display a form consisting of fields Class and section. Based on the input given in the form it will display the class report section wise. It includes list of students, subjects, teachers details of the particular class and section.

11. If you click on the home tab then it will display the home page.

12. If you click on the logout tab then you will be logged out from the portal, the login page will be displayed.

13. Stop.

Core Concepts used in the project:

Classes, Objects, Methods, Data Structures, Exception handling, Collection Framework (ArrayList), Access Modifiers/specifiers, Utility Packages, JSP (Java Server Pages), Servlets, MVC Framework (model, view, controller).

GitHub Repository Link:

<https://github.com/Padmini-B/LearnersAcademy>

Conclusion:

The Learner's Academy Admin portal helps you to maintain the school data related to the students, teachers, subjects, classes in an organized way. If any government officials come for inspection to your school then this application will help you a lot to show your details rather than maintaining the data in hard copies.