**GitHub repository**

<https://github.com/geprah/FullStackJavaDeveloper.git>

**SPRINTS**

This prototype project (Learners Academy) will be delivered in

**Product Backlog**

Setting up Git and GitHub accounts to store and track project enhancements

To display a login page

Display links to add and view teachers, subjects, classes and students home page

Create a database to hold login for portal and academy stakeholders’ info

To set up a master list of all subjects

To set up a master list of all teachers

To set up a master list of all classes

To assign a teacher to a class for a subject.

To get a master list of students.

To view a Class report showing information about class , student, subjects and teachers.

**Release 1**

Sprint 1: 1 week

User story 1: Setting up Git and GitHub accounts to store and track project enhancements

Task 1: Set up a dedicated remote repository to store and track enhancements

Task 2: Set up a dedicated local repository to store and trace enhancements

User story 2: To display a login page

Task 1: Show application name and developer details on login screen.

Task 2: Create a login table in database.

Task 3: Create a list of users to login to portal.

User story 3: Create home page to show links to add users

Task 4: Create home page showing links to add users

Task 5: Create “Add Teacher” page to add teachers

Task 6: Create “Add Subject” page to add subjects

Task 7: Create “Add Class” page to add Classes

Task 8: Create “Add Student” page to add students

Sprint 2: 1 week

User story 1: Create home page to show links to view users

Task 1: Create home page showing links to view users

Task 2: Create “View Teacher” page to view teachers

Task 3: Create “View Subject” page to view subjects

Task 4: Create “View Class” page to View Classes

Task 5: Create “View Student” page to View students

User story 2: To create tables to save users

Task 6: Create Teacher table to track all teachers

Task 7: Create Subject table to track all subjects

Task 8: Create Class table to track all classes

Task 9: Create Student table to track all Students

Sprint 3: 1 week

User story 1: Set up master list for teachers, subjects, classes and students

Task 1: Insert a list of teachers into Teachers table

Task 2: Insert a list of subjects into Subjects table

Task 3: Insert a list of classes into Class table

Task 4: Insert a list of students into Student table

User story 2: Create a view page to show Class report

Task 5: Add view page to show class report

Task 6: Implement file search with java.io.File class.

User story 3: Create classes and servlets to handle views and addition of users

Task 7: Create resource class to connect to database

Task 7: Create dao classes to fetch or insert into tables on database

Task 8: Create service servlets to fetch info from dao classes

Task 9: Create controller class to handle requests from JSP pages

**Definition of Done**

Algorithm is complete

Documentation is complete

Testing is complete

Source code pushed to server

Code has been reviewed and Product owner has approved

**JAVA CORE CONCEPTS**

Encapsulation: LockedMe has private static property. Public static getSc() method to get scanner object.

Using control/loop blocks: if, else, while, enhanced for and switch

Data structures: variables(local, static and instance variables) and arrays

Exception handling: with try and catch blocks

Generic classes: using ArrayList<String> from FileOperations.java

Java Servlets and JSP

Creating Dynamic web pages wth eclipse

Creating a database on mysql server.

**How to run program**

**From Eclipse IDE**

From File menu, select import to import existing Eclipse project and choose LockedMe project folder.

