**Student Course Project Documentation**

**Base Controller**

**Location:** /app/libraries/Controller.php

This is the base controller. All the controllers will need to extend this class. This base controller has methods to load the model and views.

**Core**

**Location:** /app/libraries/Core.php

This is the core class. This will read the url parameters and create instance of respective controller.

**Database**

**Location:** /app/libraries/Database.php

This is the database class file which has a static method for database instance creation (singleton). At any point in time only one database object is returned. This also has required db methods to perform prepare, bind, execute database operations and also to return the result set as an object.

**Config**

**Location:** /app/config/config.php

This is the configuration file. The application required configurations are defined here. The database connection parameters are to be set in this file.

**Home Page**

**URL:** /studentregistration/

**Controller:** /controllers/Home.php

**View:** /views/home/index.php

This component loads the home page. The view is populated with the list of subscribed students and courses. The ‘Home’ controller will call ‘Student’ and ‘Course’ model to get the respective data to be displayed in the home screen. Initially the data will be empty and appropriate message is displayed in the view. Once student/course has been registered this view will be updated with the same data.

Also, ‘Edit’ and ‘Delete’ options are made available for registered student and course in the home page.

Edit functionality:

**url:**

* For Students
  + Edit url : ‘/students/update/{student\_id}’
  + Delete url: ‘‘/students/delete/{student\_id}’
* For Courses
  + Edit url : ‘/courses/update/{course\_id}’
  + Delete url: ‘‘/courses/delete/{course\_id}’

**Student Registration Page**

**URL:** /studentregistration/students/register

**Controller:** /controllers/Students.php

**Model:** /models/Student.php

**View:** /views/register/student-registration.php

This component loads the student registration form. The student can be registered by entering the required details.

**Course Registration Page**

**URL:** /studentregistration/courses/register

**Controller:** /controllers/Courses.php

**Model:** /models/Course.php

**View:** /views/register/course-registration.php

This component loads the Course registration form. The student can be registered by entering the required details.

**Subscribe to Courses Page**

**URL:** /studentregistration/subscription

**Controller:** /controllers/Subscription.php

**Model:** /models/Enroll.php

**View:** /views/register/enroll.php

This component loads the Student-Course registration form. The student can be registered to a course by making selections in the dropdown. ‘Student’ dropdown is single select and ‘Courses’ dropdown is multiselect (as one student can subscribe to more than one course).

**Generate Reports Page**

**URL:** /studentregistration/reports

**Controller:** /controllers/Reports.php

**Model:** /models/Report.php

**View:** /views/reports/report.php

This component provides the list of students registered for the courses.