Fresh Grads – Group Project University Course application Program



Problem Statement

To Create an Application for University Course Selection.

The Applicant should be able to search University Program for

Which applicant wishes to take admission. Applicant can apply online and fill up the form, without any login.

The Staff can add/update/delete any Course/Program that University offers.

Admission Committee members have responsibility to filter the Candidates/applicants for a specific program on basis of application data

- 1. Course/Program Management
- 2. Applications Filtering management





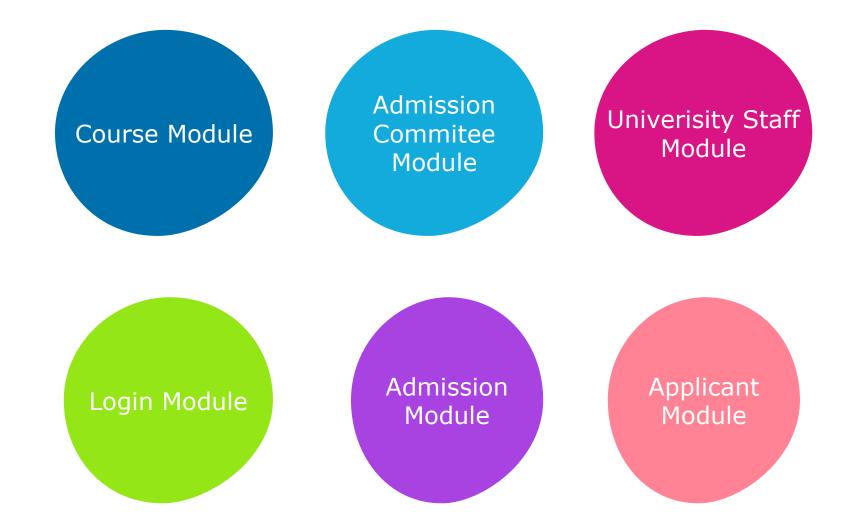
Plan

- 1. Design
 - 1. Generate the skeleton as per class design provided
- 2. TDD approach
 - 1. Identify test cases for each module
 - 2. Write Failing Test cases
 - 3. Convert the Test Cases in GREEN
- 3. Implement the case study in incremental manner



Modules

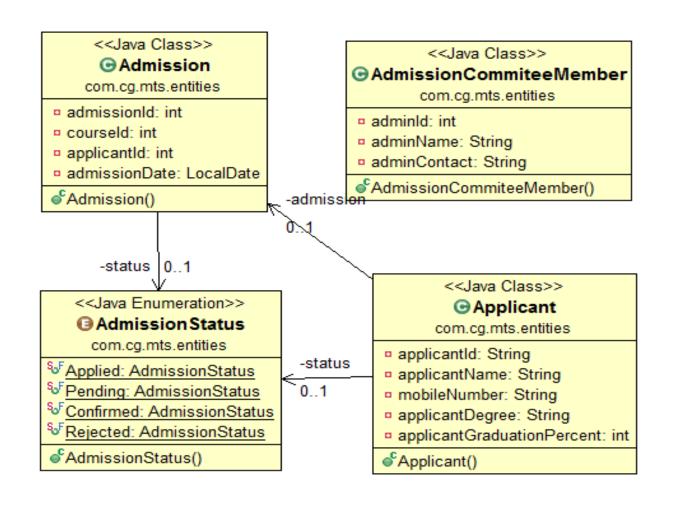






Class Design

POJO Classes:



<<Java Class>>
OuniversityStaffMember com.cg.mts.entities
staffld: int
password: String
role: String
UniversityStaffMember()



Class Design

Service Interface:

<<Java Interface>>

IAdmissionCommiteeMemberService

com.cg.mts.service

- addCommiteeMember(AdmissionCommiteeMember):AdmissionCommiteeMember
- updateCommiteeMember(AdmissionCommiteeMember):AdmissionCommiteeMember
- viewCommiteeMember(int):AdmissionCommiteeMember
- removeCommiteeMember(int):void
- viewAllCommiteeMembers():List<AdmissionCommiteeMember>
- provideAdmissionResult(Applicant,Admission):void

<<Java Interface>>

IAdmissionService

com.cg.mts.service

- addAdmission(Admission):Admission
- updateAdmission(Admission):Admission
- cancelAdmission(int):Admission
- showAllAdmissionsByCourseld(int):List<Admission>
- showAllAdmissionsByDate(LocalDate):List<Admission>

<<Java Interface>>

ICourse Service

com.cg.mts.service

- addCourse(Course):Course
- removeCourse(int):Course
- updateCourse(Course):Course
- viewCourse(int):Course
- viewAllCourses():List<Course>

<<Java Interface>>

IApplicantService

com.cg.mts.service

- addApplicant(Applicant):Applicant
- updateApplicant(Applicant):Applicant
- deleteApplicant(Applicant):Applicant
- viewApplicant(int):Applicant
- viewAllApplicantsByStatus(AdmissionStatus):List<Applicant>

<<Java Interface>>

IUniversityStaffService

com.cg.mts.service

- addStaff(UniversityStaffMember):UniversityStaffMember
- updateStaff(UniversityStaffMember):UniversityStaffMember
- viewStaff(int):UniversityStaffMember
- removeStaff(int):void
- viewAllStaffs():List<UniversityStaffMember>
- addCourse(Course):Course
- removeCourse(int):Course
- updateCourse(Course):Course

<<Java Interface>>

ILoginService

com.cg.mts.service

- loginAsApplicant(String,String):boolean
- loginAsAdmissionCommiteeMember(String,String):boolean
- loginAsUniversityStaffMember(String,String):boolean

Repository:

Class Design

<<Java Interface>>

IAdmissionCommiteeMemberRepository

com.cg.mts.repository

- addCommiteeMember(AdmissionCommiteeMember):AdmissionCommiteeMember
- updateCommiteeMember(AdmissionCommiteeMember):AdmissionCommiteeMember
- viewCommiteeMember(int):AdmissionCommiteeMember
- removeCommiteeMember(int):void
- viewAllCommiteeMembers():List<AdmissionCommiteeMember>

<<Java Interface>>

IAdmissionRepository

com.cg.mts.repository

- addAdmission(Admission):Admission
- updateAdmission(Admission):Admission
- cancelAdmission(int):Admission
- showAllAdmissionsByCourseld(int):List<Admission>
- showAllAdmissionsByDate(LocalDate):List<Admission>
- showAllAdmissionsByApplicant(int):List<Admission>
- calculateTotalCost(int):double

<<Java Interface>>

IApplicantRepository

com.cg.mts.repository

- addApplicant(Applicant):Applicant
- updateApplicant(Applicant):Applicant
- deleteApplicant(Applicant):Applicant
- viewApplicant(int):Applicant
- viewAllApplicantsByCourse(int):List<Applicant>

<<Java Interface>>

• ICourseRepository com.cg.mts.repository

- addCourse(Course):Course
- removeCourse(int):Course
- updateCourse(Course):Course
- viewCourse(int):Course
- viewCourseList():List<Course>

<<Java Interface>>

ILoginRepository

com.cg.mts.repository

- verifyApplicantCredentials(String,String):boolean
- verifyAdmissionCommiteeMemberCredentials(String,String):boolean
- verifyUniversityStaffMemberCredentials(String,String):boolean

<<Java Interface>>

IUniversityStaffRepository

com.cg.mts.repository

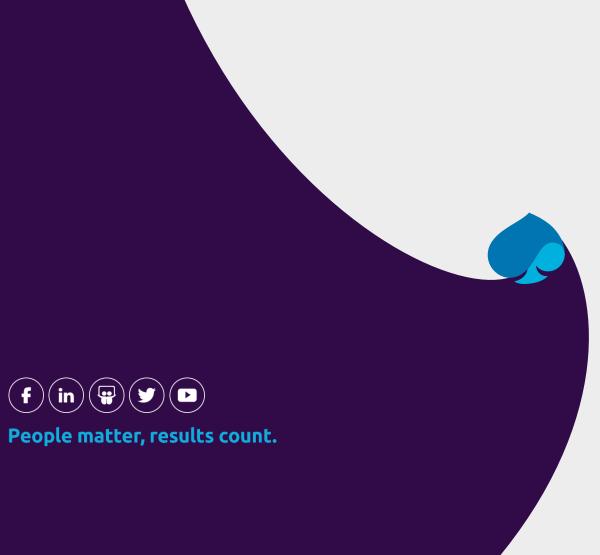
- addStaff(UniversityStaffMember):UniversityStaffMember
- updateStaff(UniversityStaffMember):UniversityStaffMember
- viewStaff(int):UniversityStaffMember
- removeStaff(int):void
- viewAllStaffs():List<UniversityStaffMember>

Questions









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