**Mission Statement**

 The “My 13th Rizzon” team will be responsible for developing the website, “FindMyCollege”, an online college and course recommendations metasearch platform.  “FindMyCollege” aims to enable users, primarily high school graduates, to make more informed decisions about which universities and what courses to apply for within Singapore. “FindMyCollege”  will recommend particular courses and universities to users based on their qualifications and personality amongst other factors.

# Functional Requirements

## 4.1Data sets

4.1.1   FindMyCollege must utilize the Graduate Employment survey conducted by NTU, NUS, SMU, SUTD, SUSS retrieved from data.gov.sg

4.1.2   FindMyCollege shall refer to the indicative grade profiles across all public universities including NTU, NUS, SMU, SIT, SUTD, SUSS

## 4.2Sign up and login page

4.2.1    Users must be able to create an account with a valid email address

4.2.2    Users must be able to login with their registered email address and password.

## 4.3Personality Test page

4.3.1    The test page must prompt users to take the RIASEC personality test

4.3.2    Users’ personality test scores must be stored in the database

## 4.4Input page

4.4.1    The website must feature a page for users to input their academic qualifications and interest subjects

4.4.2    The website must support at least 2 curriculums recognised by Singapore’s public universities.

4.4.3    The website must prompt users to input their curriculum taken and respective grades obtained.

4.4.4    Users’ inputs must be stored in the database

4.4.5    Users’ inputs must be checked against the IGP stored in the database to optimise the recommendations to users.

## 4.5Recommendations page

4.5.1    The Recommendations page must feature at least 3 course suggestions, each at exactly one university.

4.5.2   Users must be able to view details of a recommended course and college by clicking on a link.

## 4.6User preferences

4.6.1    Users must be able to modify their preferences by re-taking the personality test.

4.6.2   The website must suggest different courses and colleges to complement user preferences.

## 4.7Course and College Introduction Page

4.7.1    The website must display the courses’ indicative grade profile and relevant subjects, employment rates and starting salaries.

Non-Functional Requirements

1. Performance Requirements

5.1.1. The system must not crash when the user opens the application.

5.1.2. The system must be able to display recommendations within 3 seconds of the user submitting the personality test.

## Usability Requirements

5.2.1. The website design must be intuitively illustrated for ease of navigation.

5.2.2. All features of the website are to be clearly displayed.

5.2.3. The website must offer informative recommendations.

5.2.4. The system must provide necessary feedback to the user when invalid inputs are detected.

5.2.5. The system must display appropriate error messages if certain processes fail.

5.2.6. The system will only support the English language.

## Reliability Requirements

5.3.1. The website must have an uptime of more than 98%.

5.3.2. The website must not break due to user’s invalid input.

## Security Requirements

5.4.1. User data should not be disclosed without their consent.

5.4.1.1.   User’s data must not be seen or accessible by other users.

5.4.1.2.   User data must be deleted from the database when the user deletes the account.

5.4.2. The password must be at least 7 characters long.

5.4.3. Users must be automatically logged out if there is a change in account information.

## Maintainability Requirements

5.5.1. Maintenance shall be conductedregularly every month to ensure website is up to date.

5.5.2. An electronicannouncement must be released on the website as a pop up message to inform the users, days prior to maintenance, the date and details of the maintenance accurately.