#### **https://github.com/TalUzan21/Admission-Compass-Project**

#### **Functionality Requirements**

**Admission Compass Features**

Previous Student Admissions Form & Table

Our website will feature a form that will collect important information from previously admitted students regarding their admission criteria. It will include the student's institution of acceptance, degree type, degree name, a comprehensive list of Bagruyot subjects and scores, a breakdown of psychometric test scores, additional courses completed, a section for supplementary information, and more. Having access to all these inputs enables past students to thoroughly provide valuable information. This information will then be organized into a structured table in our database.

Institutions & Institutions’ Degrees Tables

In our database we will have a table dedicated to storing essential data about institutions in Israel. From names, locations, contact information, and more, we'll store the pertinent information that users will want to know about these schools.

For every institution, we will have a table containing general information about the degrees that they offer. This table will store key details for each degree, such as program name, type, admission criteria, and general information. These database tables will be used to provide useful functionality on the website, such as searching, filtering, or displaying results.

Search Tool & Table

Our website will feature a search tool that enables users to effortlessly explore admission requirements based on their desired degree and degree type, or institution, or personal grades. To ensure accuracy, the search tool will utilize dropdown menus, providing predefined options for input fields. This approach helps prevent spelling errors and ensures the accuracy of the data submitted. Behind the scenes, we will store each search made in a database table in order to better future search results and filtering options. The search tool will query our database tables (as mentioned above) using database functions, ensuring efficient and accurate retrieval of information.

List of Search Results

Our search results will be shown in a list format. This feature enhances the user experience by presenting the queried information in a structured and digestible way. By providing search results in a list, users can quickly scan through the relevant content and find the information they are looking for efficiently. It contributes to the overall functionality and usability of the website.

Filters

On our search results page, we will provide users with convenient filtering options to customize their search experience. These filters include location, degree name, type, and others. Our filter options can expand depending on the keyword trends found in the searches database table. This feature will help users pinpoint the information that best aligns with their needs quickly and effortlessly.

Detailed Result Pages

This feature offers users a well-rounded understanding about the admission requirements for the selected result from the search results list. This page provides further information about the institutional data, degree specifics, and insights from past students admitted to this program. This data is retrieved from the database tables mentioned above. To enhance user engagement, the information is presented in visually appealing formats, including graphs and pie charts.

**Use Cases**

**1. Use Case - Exploring Admission Requirements**

Actor - Prospective student

Goal - To explore admission requirements for universities and degree programs in Israel.

Uses -

1. The prospective student searches for degree programs:

- The student navigates to the search tool on the Admission Compass website.

- They input their desired degree and degree type, or institution, or personal grades into the search criteria.

- The system retrieves relevant results from the database based on the search parameters.

2. The prospective student views search results:

- The system presents the search results in a list format on the search results page.

- The student scans through the list of results to find programs of interest.

3. The prospective student selects a result:

- The student clicks on a specific result from the list to view more detailed information about the selected program.

4. The prospective student views the detailed program information:

- The system redirects the student to a dedicated result page for the selected program.

- The student views the comprehensive details about the admission criteria, program specifics, and insights from previous students.

5. The prospective student refines the search using filters:

- The student utilizes the filtering options provided on the search results page to further refine their search.

- They apply filters based on degree type, location, admission criteria, or other relevant factors to narrow down their options.

6. The prospective student makes an informed decision:

- Equipped with this comprehensive information and insights, the student evaluates different programs and institutions.

- They use the data presented on the website to make informed decisions about their academic choices.

Possible Results -

- The student's initial search criteria may have yielded no results, so they may refine their search parameters and try again.

- The student has successfully explored admission requirements for various universities and degree programs in Israel.

- The student may choose to apply to specific programs based on the information gathered from the Admission Compass website.

**2. Use Case - Previously Accepted Student Submission**

Actor - Previously Accepted Student

Goal - To submit admission criteria and other relevant information to the Admission Compass website.

Uses -

1. The previously accepted student fills out the submission form with their admission criteria and other requested information, including details about their institution of acceptance, degree specifics, and academic achievements.

2. The system validates the entered information to ensure completeness and accuracy.

3. The system stores the submitted data in a structured format in the database.

4. The system displays a confirmation message indicating that the submission was successful.

Possible Results -

- If any entered information is invalid or incomplete, the system displays an appropriate error message, prompting the user to correct the errors before submitting the form again.

- After the successful submission, the information is stored in the system's database.

- The submitted data can now be accessed and used by Admission Compass and provide insights into the admission requirements and academic trends for each institution.

**3. Use Case - Data Analysis and Website Improvement**

Actor - Admission Compass System

Goal - To analyze submitted data and use insights to enhance the Admission Compass website.

Uses -

1. The system retrieves the submitted data from the database, including admission criteria, institution details, and other relevant information.

2. Utilizing data analysis techniques, the system identifies trends, patterns, and insights from the submitted data.

3. Based on the analysis, the system identifies areas for potential improvement on the Admission Compass website, such as refining search algorithms, updating institution profiles, or enhancing filtering options.

4. The system implements the identified improvements, and incorporates the changes to the website's functionality, user interface, or content.

5. The system verifies the effectiveness of the implemented improvements through testing and monitoring website metrics.

6. If the improvements are successful, the system continues to monitor and analyze the data to further optimize the website's performance.

Possible Results -

- If the analysis reveals no significant insights or areas for improvement, then the system may decide to not make any website changes.

- The Admission Compass website is continuously improving and optimizing based on insights gained from the data analysis, providing users with an enhanced experience and access to valuable information about admissions requirements.

#### **Non- Functionality Requirements**

User Experience -

The website will have an easy-to-use interface that is suitable for all users. It will feature straightforward navigation and clear instructions. With a minimalist yet visually pleasing design, the site will prioritize simplicity as to avoid overwhelming its users. The information displayed will be both concise and detailed, depending on the needs of the user.

Performance -

The platform will provide quick responses to user queries, ensuring that search results and other interactions are promptly delivered.

Scalability -

The system will be scalable to accommodate concurrent user interactions, particularly during peak usage periods. This involves ensuring that the website and the database tables have enough capacity to handle the increased loads and perform optimally even under fluctuating loads.

Compatibility -

The website will be accessible across various devices and browsers, ensuring compatibility with different operating systems and screen sizes.

Security -

The platform will implement robust security measures to protect user data and maintain confidentiality. This includes secure storage practices, protection against unauthorized access, and more.

Maintainability -

Maintaining the website requires its code to be clean, organized, and clear with comments. Continuous testing and monitoring is needed to ensure the website’s high performance and reliability. The database will also be efficiently managed to ensure seamless operations. This includes optimizing database queries, maintaining data integrity, and regular backups to prevent data loss. Regular website updates and new features will keep the site fresh and responsive to user needs.