README for Part B BGUniQ Web Project

The Developed Website

Personalized BI Application web for Analyzing Academic Performance for Students.

Overview Of Our Website

The website offers students an interactive platform to manage their academic performance, access records, and track progress toward GPA goals. It enables efficient tracking of averages, achieving personal targets, and organizing academic data, fostering engagement with courses, grades, and performance metrics.

System Objectives

- ✓ Provide an up-to-date overview of academic performance.
- ✓ Enhance student awareness of achievements and motivation to improve performance.
- ✓ Support academic decision-making and goal setting.
- ✓ Offer personalized data analysis and insights.

Key Features

1. Personal Profile Management
   - Input academic personal data, course details, and grade components.
   - Track indicators and averages (semester, year and cumulative).
2. GPA Calculation and Simulation
   - A calculator for weighted average computation based on courses and components.
   - Run simulations to predict expected GPA changes.
3. Data Analysis and Insights
   - Graphical analysis of academic achievements.
   - Identify trends in performance improvement or decline.
   - Display statistical indicators of progress over time.
4. Personal Goal Management
   - Define academic and personal goals and track goal achievements.

Frontend Technologies Used

HTML, CSS, JavaScript

Project Structure

1. Templates folder with all the HTML files
2. Static folder with Styles (CSS), Scripts (JS), Images, Fonts and SVG folders.

Pages Descriptions

1. Login - the main page of the website, including filling personal academic details.

2. <u>Index</u>- personal home page contains navigator and searching functionality, quick access to main services and personal metrics dashboard allowing the user to truck his performance easily.

3. <u>GPA Calculator</u>- allows users to input course details and grades for GPA calculation Including input validation, offering calculation grade by components.

4. <u>Academic Record</u>- displays an overview of grades for all course grades taken so far and entered into the system, Includes option of filtering by academic years.

5. <u>"What IF" Calculator</u>- allows users to simulate GPA scenarios and help them to make academic decisions such as determining whether to proceed with a second exam based on estimated GPA. Includes an interactive slider for selecting grades between 0 and 100, with immediate calculation of the GPA impact.

6. <u>Binary Pass Calculator</u>- provides dynamic insights into the impact of binary pass scenarios on the GPA, including functionality to set one or multiple courses.

7. <u>Future Semester Calculator</u>- allows users to plan academic scenarios for upcoming semesters by adding anticipated courses and grades. Including interactive slider for selecting grades, with immediate calculation of the GPA impact.

8. <u>Academic Performance Analysis</u>- provides a detailed analysis of academic performance through graphical representations of semester-wise and yearly GPA averages, along with a breakdown of course contributions to overall performance.

9. <u>Advanced Analysis</u>- includes graphs tracking the degree average over time to identify trends and insights, along with a graph showing semester averages and their impact on the overall degree average, highlighting how each semester contributed to an increase or decrease in the overall average.

10. <u>Setting Personal Goals</u>- Allows users to set and track personal academic goals.

User Instructions

1. Access the Homepage: create an account to get started or Login.
2. Input Personal Details- for the first time only.
3. Set Beginning month and year at BGU- for the first time only.
4. Use GPA Calculator for chosen semester and year with grade components.
5. Use Simulations: What-If Calculator, Binary Pass and Future Semester.
6. View Academic Records and filter grades by year.
7. Analyze Performance: Explore graphs for trends and semester contributions to your GPA.
8. Set Goals: Define personal academic targets and track progress.
9. Make Decisions: Use insights to optimize academic choices and improve your performance.

Assumptions

1. <u>Login</u>:
   - when entering the first time, the user creates an account.
   - when a user logs in to the system, he already registered.
   - If the user clicks "Forgot password," he is taken to a page will be addressed in Part C.

2. <u>GPA calculator</u>:

- When entering data, the user does not input the next value until the current value has been corrected, if required (interactive red error shown under the relevant input cell).
- The user does not attempt to open an additional "grade by components" window until the previous has been closed by clicking the close button (X).
- The user will close the extra actions (...) window before attempting to open another window using the same type of entry button.

3. <u>Responsive Design</u> relies on standard sizes:
- Default design is tailored for large screens (desktop computers).
- A maximum width of 768px is for medium screens (tablets).
- A maximum width of 480px is for small screens.
- A maximum width of 380px is for mobile devices.
  The minimum screen size considered is 380px, assuming no devices with smaller screens exist.

4. <u>General</u>:
5. For dropdown lists (e.g., in the Simulation Calculator page), the user will click the arrow icon to open and close the dropdown menu.
6. Opening and closing the navigation menu will be performed by clicking the "hamburger" button (≡).
7. The website is designed for students at the Ben-Gurion University Student Union in Israel. It is assumed that users will not attempt to change the website's language to English (this feature is unavailable).

Start achieving your goals. Goodluck! Shiraz and Yuval ☺