Goal of project:

To implement a website with the following requirements

1. Adaptive Home page
2. Signup/login section

a.1. One or more of the following Google/linkedin/github sign in implementation

a.2. Have a Slider Authentication form like the following **P.1**

1. background image containing picture collage of completed projects
2. User home page
3. User setting page
4. Main “canvas” page (this is where the designs are made)
5. Types of graphs you’ll be able to make:  
   **Software Engineering**:
   * **Gantt Charts**: Used for project scheduling and tracking tasks over time.
   * **Burndown Charts**: Often used in Agile development to track work remaining in a sprint or release.
   * **Pie Charts**: May be used to represent the distribution of issues, bugs, or features by category.
   * **Bar Charts**: Useful for comparing metrics like code complexity, lines of code, or defect counts.
   * **Flowcharts**: Visualize the flow of a process, such as software development workflow.
6. **Cybersecurity**:
   * **Network Topology Diagrams**: Used to depict the structure of a network.
   * **Time Series Graphs**: Display patterns in network traffic or system activity over time.
   * **Heatmaps**: Indicate areas of vulnerability or high-risk activity.
   * **Pie Charts**: Show the distribution of security incidents by type.
   * **Bar Charts**: Compare the frequency of different types of attacks.
7. **Web Development**:
   * **Wireframes**: Simple sketches or diagrams to plan the layout and structure of a web page.
   * **Flowcharts**: Visualize user interactions and navigation within a website.
   * **Pie Charts**: Illustrate the distribution of content types or user demographics.
   * **Bar Charts**: Compare website analytics data, such as traffic sources or page views.
   * **Line Charts**: Display trends in user engagement or website performance over time.
8. **Computer Science**:
   * **Flowcharts**: Used to represent algorithms or processes.
   * **Tree Diagrams**: Illustrate data structures like binary trees or decision trees.
   * **Graphs (in the mathematical sense)**: Used for modeling and solving problems in graph theory.
   * **Scatter Plots**: Show relationships between variables in data analysis and statistics.
   * **Histograms**: Display the distribution of data, which can be useful for analyzing algorithms' runtime.

References:

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