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)

Jacob: designing front end

Josh/Jacob talk about implementation of back end

1. 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.
2. **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.
3. **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.
4. **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.

Trimmed down goal

1. Types of graphs you’ll be able to make:  
   **Software Engineering**:
   * **Uml diagram:** a way to visually represent the architecture, design, and implementation of complex software systems.
2. **Cybersecurity**:
   * **Network Topology Diagrams**: Used to depict the structure of a network.
3. **Web Development**:
   * **Wireframes**: Simple sketches or diagrams to plan the layout and structure of a web page.
4. **Computer Science**: cant decide
   * **Tree Diagrams**: Illustrate data structures like binary trees or decision trees.

References:

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