#### **Software Development Life Cycle (SDLC) for Interactive Quiz Application**

#### **Design (Creating a Blueprint of the Project)**

The design phase focuses on creating a visual and technical blueprint for Interactive Quiz Application.

* **Wireframe and UI Design**:
  + Created low-fidelity wireframes to map out the structure of key pages including Home, About, Subjects, and Contact.
  + Designed adaptive layouts for desktop, tablet, and mobile to ensure consistent experience across devices.
  + Color scheme: Included smooth transitions, hover effects, and subtle animations to enhance user engagement.
* **Technical Structure**:
  + Maintained a modular folder structure with separate directories for assets, components, and pages to improve readability and collaboration.
  + Utilized a flexible CSS grid/flexbox structure to support responsive design principles across breakpoints.
* **Technology Stack**:
  + **Frontend**: HTML for structure, CSS for styling, JavaScript for interactivity.
  + **Tools**: Git and GitHub for version control and collaboration.
* **Tracking**: Progress is monitored using GitHub Projects, with tasks assigned to team members.

This blueprint guides the development team in building a cohesive and visually appealing website.

WireFrame

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| [Header] |

| +---------------------------------------------------------------+|

| | [Logo] [Home] [About] [Contact] | |

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| |

| [Search Bar] |

| |

| [Location Name] |

| |

| [Large Temp] |

| |

| [Icon] [Weather Desc] |

| [Data] [Data] [Data] |

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| +-------------------------------------------------------------+ |

| | [Day] [Icon] [H/L] | [Day] [Icon] [H/L] | [Day] [Icon] [H/L] | |

| | [Day] [Icon] [H/L] | [Day] [Icon] [H/L] | |

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| [Footer] |

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