**Phase 4: Development**

**Project Title:** *Flavour Finds – A Recipe Sharing Platform*  
**Team Size:** 3 Members  
**Technologies Used:** HTML, CSS  
**Phase Objective:** To implement the planned design into a fully functional front-end website using clean, responsive, and well-structured HTML and CSS code.

**Tools Used:**

* **Code Editor:** Visual Studio Code (VS Code)
* **Live Preview:** Live Server extension for real-time browser updates
* **Version Control:** Git and GitHub for team collaboration
* **File Sharing/Storage:** Google Drive and GitHub repository

**Task Distribution:**

* **Member 1:** Converted Figma mockups into structured HTML layouts.
* **Member 2:** Implemented the CSS styling for the homepage and category pages.
* **Member 3:** Focused on responsive design using media queries and styled the recipe detail pages.

Tasks were divided to ensure parallel progress, and regular sync-ups were held to merge code and resolve overlaps.

**Development Process:**

**1. HTML Structure:**

* Created individual HTML files for:
  + index.html (Homepage)
  + breakfast.html, lunch.html, etc. (Category pages)
  + Multiple recipe detail pages
* Used semantic HTML tags for accessibility and maintainability:
  + <header>, <nav>, <main>, <section>, <footer>
  + <article> and <figure> for recipe cards

**2. CSS Styling:**

* All styles were written in an external style.css file.
* Used CSS Flexbox and Grid to lay out content in sections like:
  + Recipe grids
  + Navigation bar
  + Footer area
* Applied hover effects to buttons and recipe cards for interactivity.
* Color schemes and fonts were applied to match the Figma designs.

**3. Responsive Design:**

* Implemented a **mobile-first approach** using media queries.
* Adjusted layout for tablets and desktop screens:
  + Navigation menu collapses into a stacked layout on smaller devices.
  + Recipe cards reflow into single-column layout on phones.
* Ensured font sizes and spacing were readable across all devices.

**Collaboration Workflow:**

* Used GitHub branches to allow each team member to work independently without conflicts.
* Merged code via pull requests, reviewed by at least one other team member before merging to the main branch.
* Weekly team meetings to check progress and update task statuses on Trello.

**Testing During Development:**

* Continuously tested layout on:
  + Desktop browser
  + Mobile devices (using Chrome DevTools and real phones)
* Used alt tags for all images to improve accessibility.
* Validated HTML using [W3C Validator](https://validator.w3.org/) to ensure clean, error-free markup.

**Challenges Faced:**

* Merging layout styles from different pages while keeping the design consistent.
* Debugging layout shifts between mobile and desktop views.
* Ensuring smooth image scaling without distortion.

**Outcome of Development Phase:**

* All planned pages were implemented with consistent styling and functionality.
* The codebase was clean, organized, and fully responsive.
* Project was ready for the **Testing** and **Deployment** phases.