

Prototyping & UI Design: Bringing Kitchen Kart to Life

NAME: TUMARADA KOOJITHA

REG NO: 22BCE7087

PROJECT NAME: KITCHEN KART (RECIPE APP)

PROJECT LINK:

<https://www.figma.com/design/lCeO3SAjxqmFhBEAAL7YIY/Food-recipe-app?node-id=0-1&t=oLThOKSBI9wVpfyS-1>

1. Defining Our Design System: The Kitchen Kart DNA

The design system for Kitchen Kart ensures visual consistency, intuitive navigation, and a unified brand identity across all screens of the app.

• Typography

- We opted for clean, modern sans-serif fonts that balance personality with legibility—ideal for presenting recipe names, ingredients, and step-by-step instructions clearly.
- Font hierarchy (headings, subheadings, body, and captions) is applied consistently to guide user attention.

• Color Palette

- The color scheme features appetizing tones like deep orange, leafy green, and creamy beige, invoking freshness, warmth, and approachability.
- These colors also aid visual grouping and contrast while maintaining harmony across the UI.

- **UI Components**

- UI elements such as recipe cards, filters, step indicators, buttons, and navbars are built as modular and reusable components.
- Each component supports multiple states (default, hover, selected, disabled), ensuring interactive clarity and consistency.

2. Supporting Accessibility Through UI Design

Accessibility is integrated into the Kitchen Kart design to ensure all users, regardless of ability, can navigate and enjoy the experience:

- **Readable Typography** with sufficient font sizes and line spacing.
- **High Contrast Ratios** between text and background, meeting accessibility guidelines.
- **Alt Text for Images** like food photos and step illustrations to support screen readers.
- **Large Tap Targets** and spacing between elements for ease of use on small screens.
- **Colorblind-Friendly UI** through the use of both color and icons/text for feedback.

3. Influencing Factors: Colors, Fonts, and Layout Choices

- **Colors**

- Warm colors (orange, golden brown) were chosen to stimulate appetite and match the culinary theme.

- Calming tones like green and beige give a homely feel, ideal for a cooking companion app.

- **Fonts**

- Simple and approachable fonts make content like recipes and instructions easy to follow.
- Type choices reflect the app's goal: friendly, clean, and focused on functionality.

- **Layout**

- The layout is structured around recipe discovery and execution:
 - Home screen → recipe categories → individual recipe
 - Each recipe screen is broken into ingredients, steps, and notes
- Visual hierarchy ensures quick scanning, and cards help group information effectively.

4. Enhancing Usability with Animations & Micro-interactions

- **Interactive Feedback**

- Buttons and icons respond with bounce or color shift animations to confirm actions.
- Loading animations (e.g., rotating spoon icon) improve perceived performance.

- **Step Transitions**

- Smooth transitions guide users from one cooking step to the next—emulating real kitchen flow.

- **Favoriting Recipes**

- Heart icon animates (pop and fill) on tap, confirming the recipe was saved.

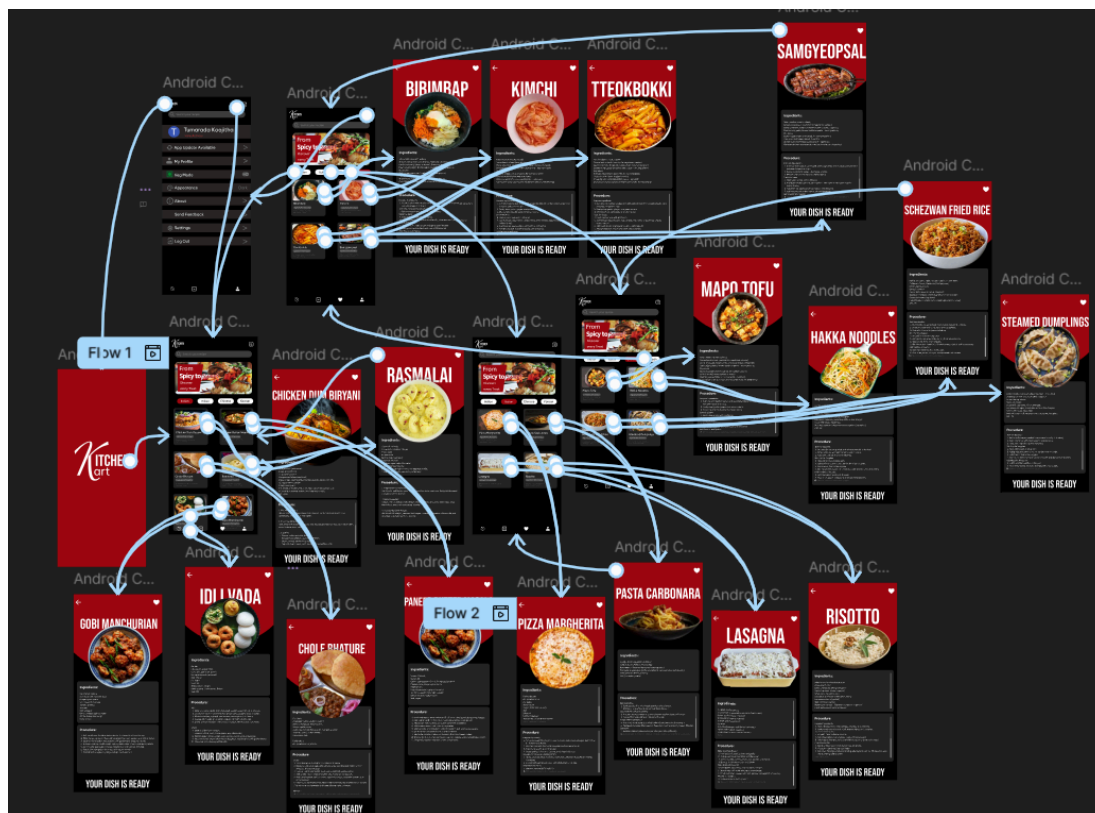
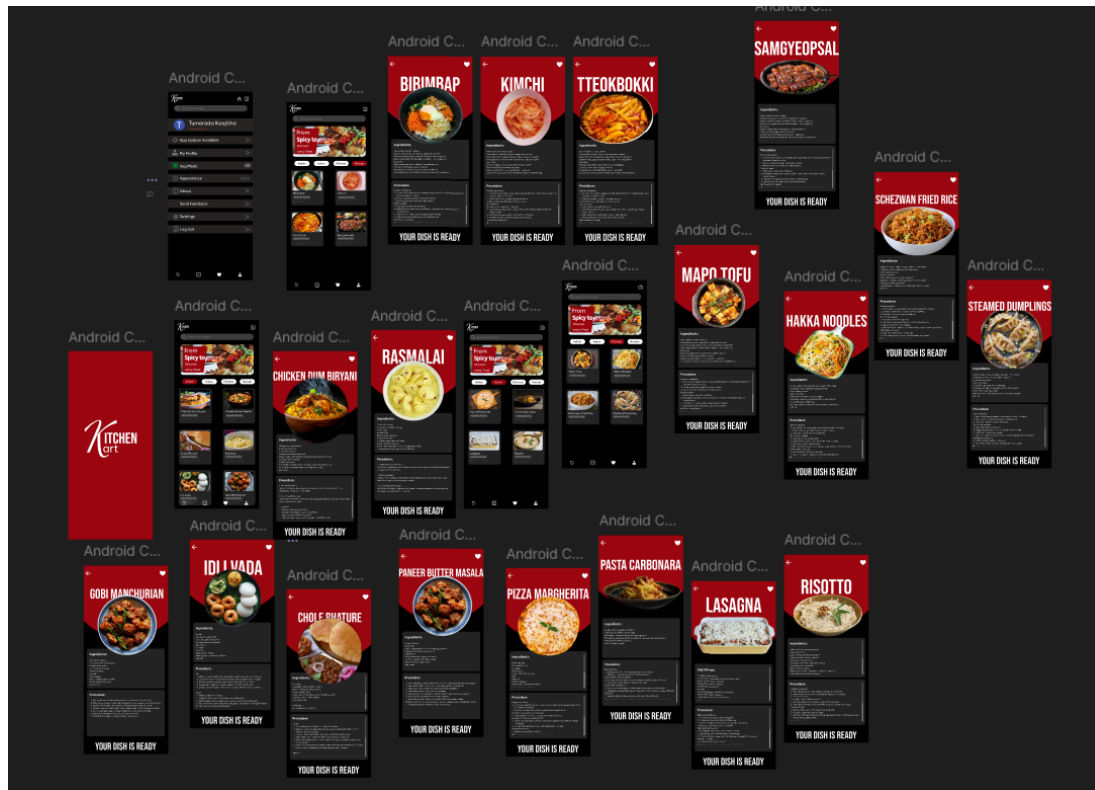
- **Recipe Completion**

- A celebratory animation or pop-up appears once a recipe is marked complete, enhancing user satisfaction.

5. Prototyping: Reflecting Real User Interactions

Prototypes created in Figma simulate full interactions and help validate the app's flow:

- Search & Filter Flows to find vegetarian/non-vegetarian or quick recipes.
- Interactive Recipe Cards that expand on tap to reveal details.
- Step-by-Step View Mode to guide users through the cooking process with swipe/next actions.
- Click-through Demos to test recipe saving, navigation, and filters during user testing.



6. Ensuring Mobile-Friendliness & Responsiveness

- Mobile-First Design ensures all core features are accessible and functional on smartphones.
- UI components use Figma's Auto Layout and constraints to adapt to different screen sizes.
- Scalable Typography and flexible grids maintain visual balance across devices.
- Touch-Friendly Controls are placed intuitively for single-hand usage.
- The design remains usable in both portrait and landscape, making it convenient in kitchen environments.