Swiss Re
Corporate Solutions

Architecture Premier League

My REC – Think Food Think Us

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Problem Statement & User Journey

- MyRec is a smart kitchen assistant helping users cook more variety in the kitchen by providing a lot of recipes to cook.

- The app broadly has 3 sections:
  - View & Organize Recipes
    - ❑ Explore Recipes
    - ❑ User Recipes (web, doc, scan, handwritten)
    - ❑ Organize recipes (liked, saved, create cookbook)
  - Create & Customize Meal plans
  - Shopping List & Ingredients Shopping

- Our Mission is to make cooking east and enjoyable by eliminating everyday kitchens hassles

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User Journey

Assumptions

❖ Meal planner can be availed for MyRec recipes only

❖ 1M+ user base for the app

❖ App functionality is worldwide. However, ingredient shopping is currently only available in India. We would consider options based on the requirement.

❖ BigZee is a trusted grocery chain in India. It has its presence in most of the major cities. However, ingredients' delivery option is dependent on the zip code of the customer.

Solution Architecture

Designed using:
https://app.diagrams.net/
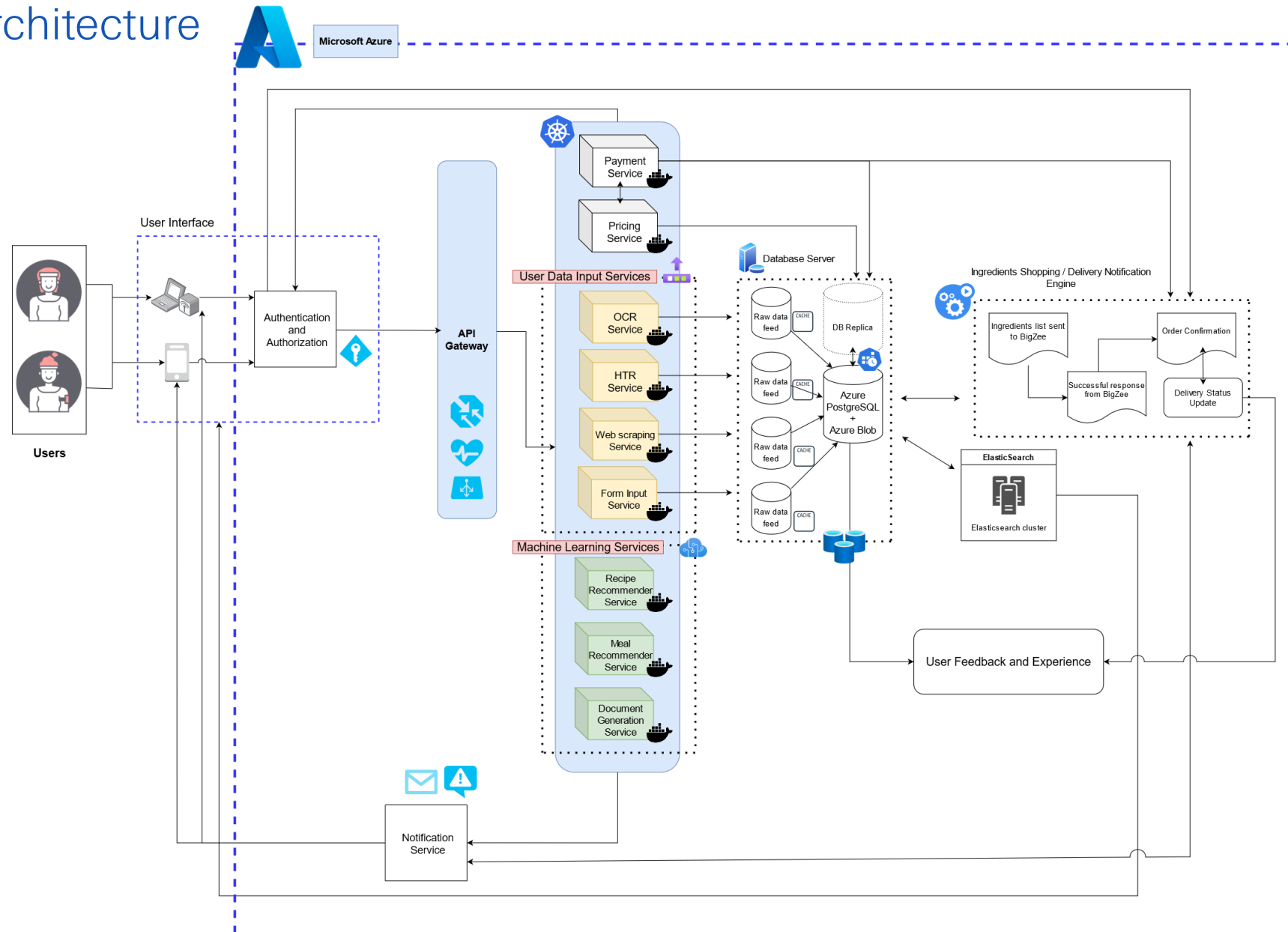
IT Principles Coverage

☑ Scalability

☑ High Availability

☑ Enterprise-Wide Security

☑ Platform Independent

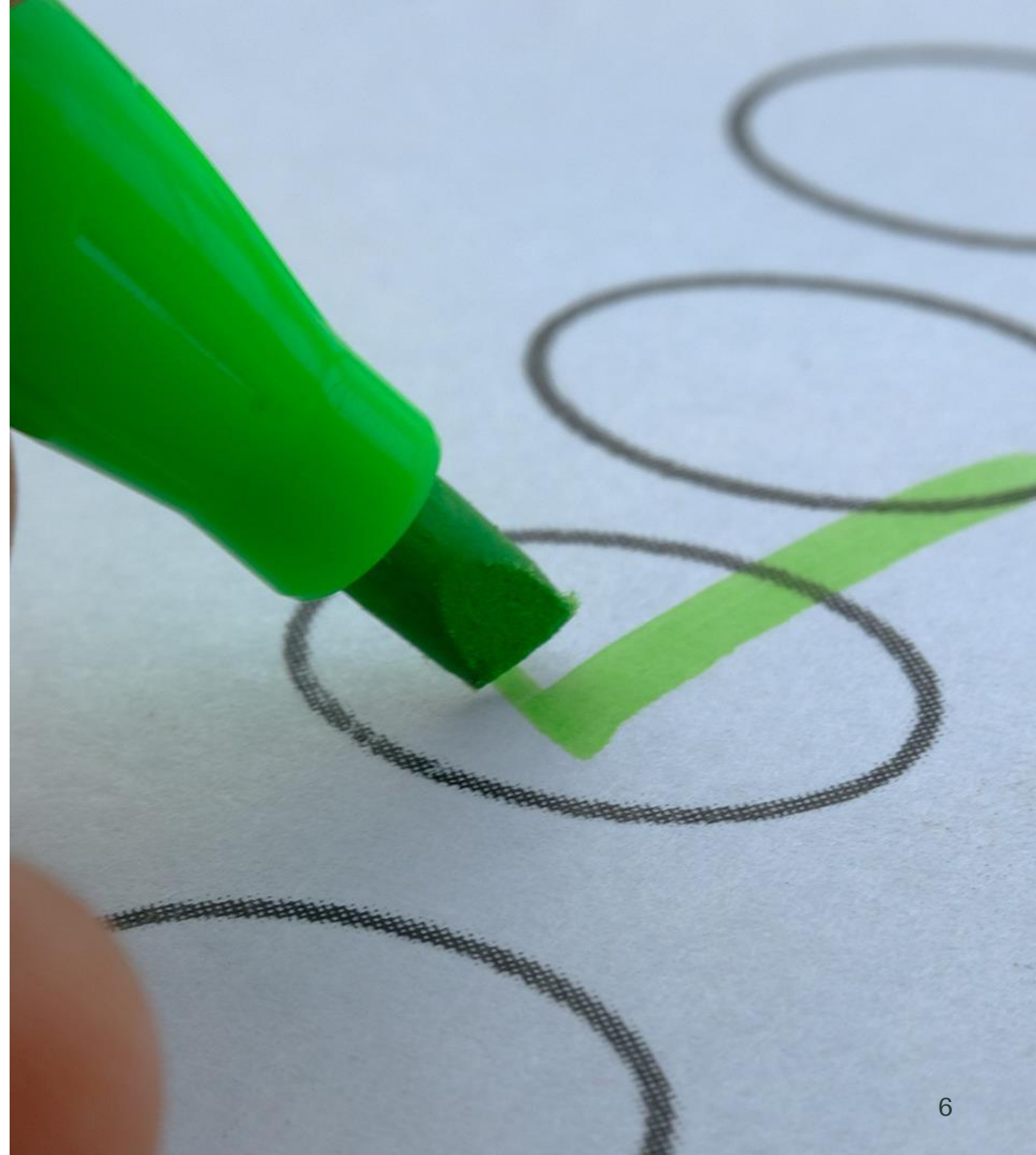☑ Customer Focus

☑ Ease of Use

☑ Data Protection

☑ Productivity
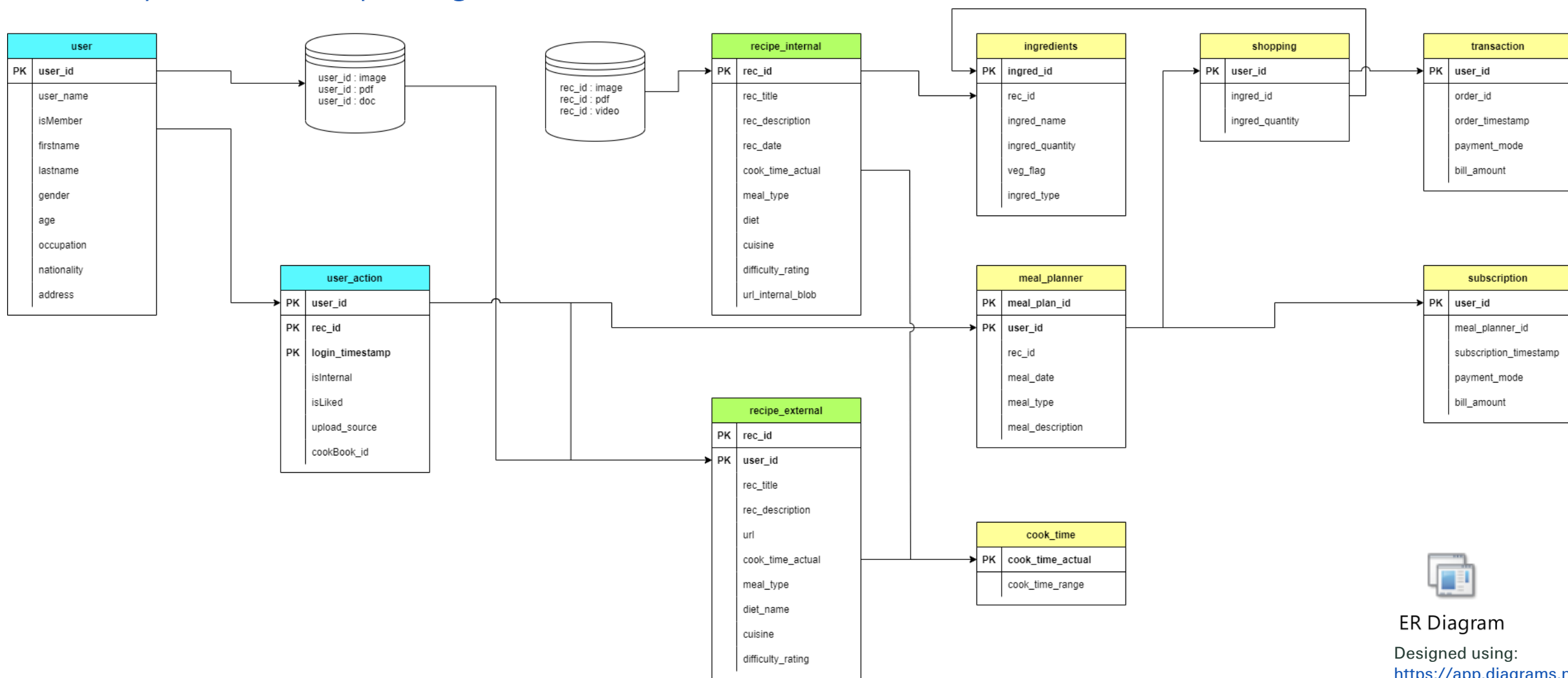
☑ Bleeding Edge

☑ Data Confidentiality

Technology Stack

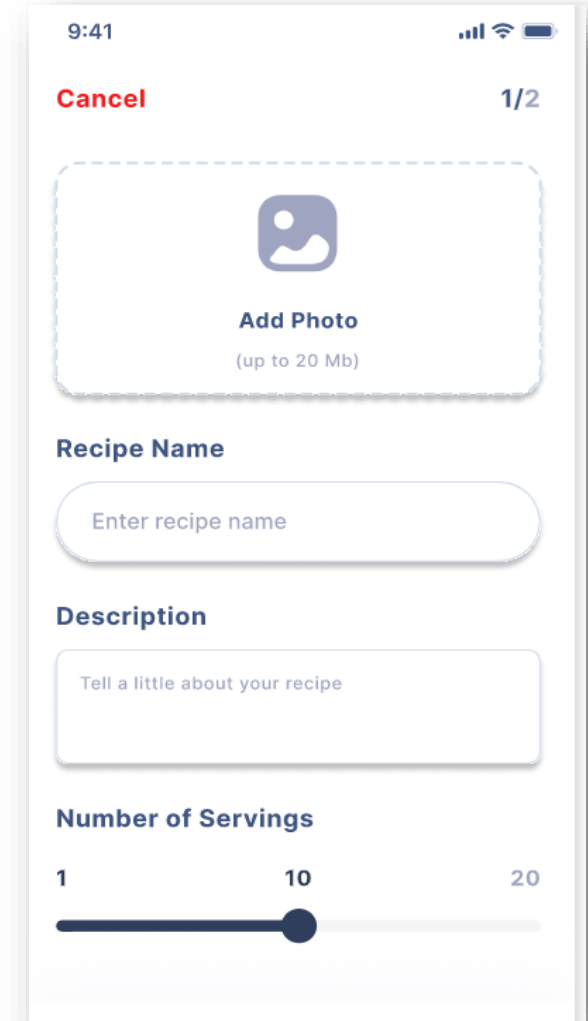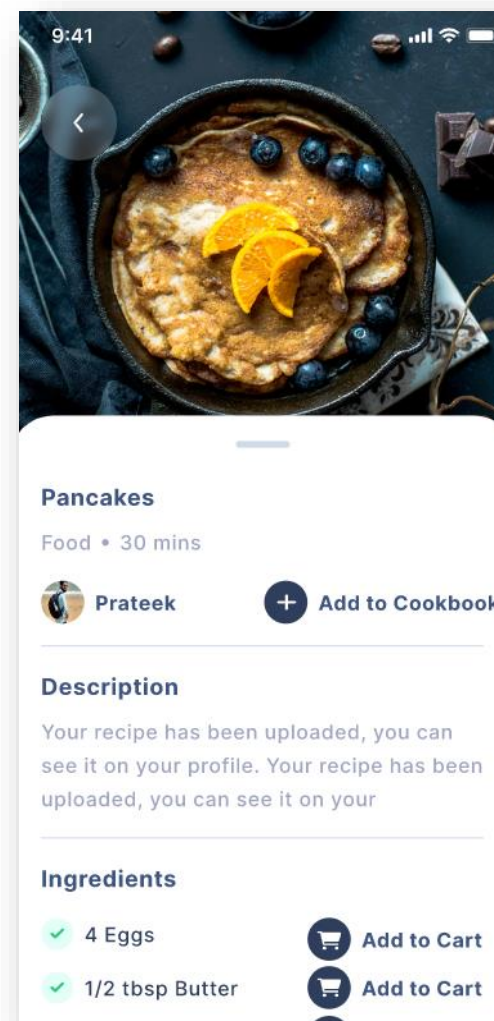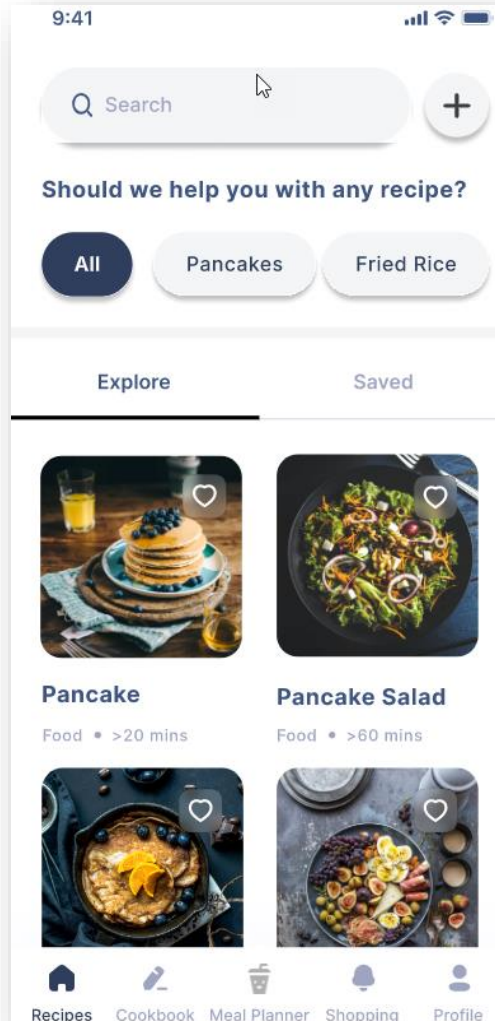| Components	Services/Packages
Operating System	Linux based Dockerized Container Instances in Azure Container Registry maintained and deployed using Azure Kubernetes Service.
UI	Flutter (cross platform application development)
Programming Languages	JavaScript
Backend Framework	NodeJS, ExpressJS
IDE	Microsoft Visual Code
DevOps , CI/CD pipelines	Jenkins
APIs and Services	Payment - Razor pay - COD (only for ingredients shopping) OCR - Individual Service - tesseract.js HTR - Azure Cloud Vision APIs. Web Scraping / Recipe Import - Puppeteer (NodeJS) Document Generation Service (PDF.js) ML based services - Apache spark - Java/Python
Authentication	Azure based built in Authentication Service (Supporting SSO, SAML and OpenID)
Monitoring	Azure Monitor and Azure Application Insights
Security & Threat Protection	Cloudflare (DDoS Protection), Azure Security Center, Azure Sentinel (for advanced threat detection, alert-based system etc.)
Load Balancer	Azure Api gateway with App Management Services, comprising in built Azure Load Balancer and Inbuilt web application firewall
Network Protocols	HTTPs (REST APIs)
Analytics	Chart.js (User self Tracking), Business Analytics (Power BI/Tableau), Website Analytics (Google Analytics), Azure Sentinel (for advanced behavioral analytics insights, threat detection, alert-based system etc.)

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Entity Relationship Diagram

ER Diagram

Designed using:
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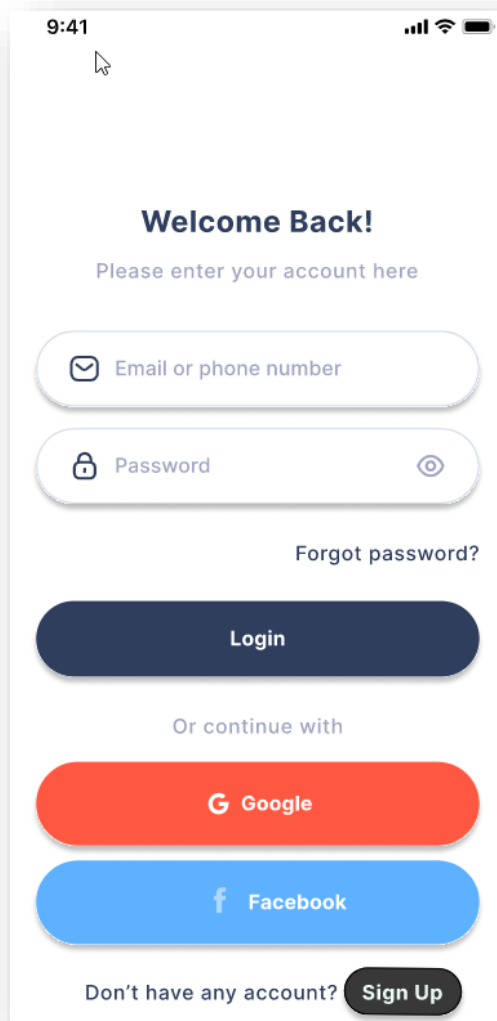
User Interface

UI Designed using: Figma , Icons Build pack: fontawesome , Images : Unsplash

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Thank you!

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