

Project Design Phase Solution Architecture

Date	23 October 2023
Team ID	Team - 590941
Project Name	News Nest An Android Application For Keeping Up With The Latest Headlines
Maximum Marks	4 Marks

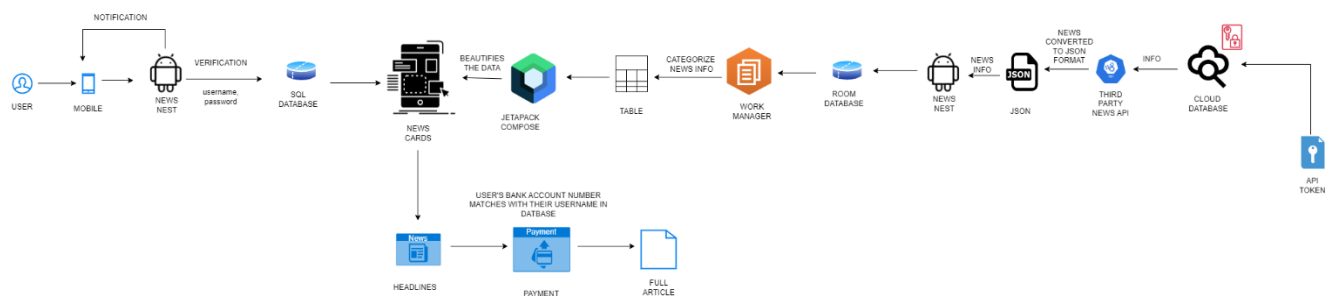
Team Members: Parimi Monish, Mohith Tadi, Allu Deva Sai Vishnu Vardhan & Manthri Ashish

Solution Architecture:

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

- Find the best tech solution to solve existing business problems.
- Describe the structure, characteristics, behavior, and other aspects of the software to project stakeholders.
- Define features, development phases, and solution requirements.
- Provide specifications according to which the solution is defined, managed, and delivered.

Solution Architecture Diagram



The solution architecture for our NEWS NEST app, utilizing modern technologies such as Jetpack Compose and various APIs, encompasses user onboarding, data collection, personalization, database management, content curation, push notifications, user interface, monetization, security, analytics, scalability, testing, deployment, and maintenance. Users register and set preferences through an intuitive Jetpack Compose user interface, with data collected from various sources via NEWSAPI Token from cloud database. A powerful personalization engine, integrated with APIs, generates tailored recommendations, and the database stores user profiles, articles, and interactions. Content curation, supported by APIs, ensures relevance and ad removal. The user interface, built with Jetpack Compose, elegantly displays content and trending topics. Monetization strategies, including in app purchases and premium subscriptions, are optimized with API integration, Analytics, utilizing APIs, track user engagement, and scalability strategies ensure your app can grow dynamically with API enhancements.