IDEALINK: FROM CONCEPT TO CREATION

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Abstract : This research aims to create a platform that connects groups of people such as idea creators, business experts, and developers. The goal is to help turn startup ideas and projects into real products. Idea creators share their concepts; business experts contribute knowledge in areas like marketing, finance, and planning; while developers build the technical solutions. The problem we solve is that in early-stage startups, many innovators lack the technical or business support they need, while developers and business professionals often struggle to find projects worth joining. IdeaLink connects these groups, making it easier for ideas to grow into real projects, startups, and businesses. Through Idealink, innovators can submit detailed project concepts with descriptions, problem statements, and features. Developers and business experts can then browse these ideas, express interest, and join projects that match their skills. This creates a multi-disciplinary team where idea creators bring vision, developers build the product (working on technical aspects), and business experts (working on business-related ideas) help with strategies for growth, fundraising, and market success.

IndexTerms: **Kotlin+Jetpack Compose+Firebase, An Android platform, Post Idea, Join The Team.**

I.INTRODUCTION

A.Background

In the current startup ecosystem, many innovators struggle to move their ideas forward due to a lack of technical or business support. Non-technical creators may have strong concepts but lack the necessary skills to build them, while developers and business professionals often seek meaningful projects where their expertise can make a significant impact. This disconnect creates a gap between innovation, execution, and market readiness.

Platforms that encourage collaboration have demonstrated how pooling different skills can accelerate progress; yet, few focus on uniting innovators, developers, and business experts in a single location. IdeaLink addresses this gap by providing a space where ideas can be shared, evaluated, and developed into real products. By enabling idea creators to outline their concepts, developers to handle technical execution, and business experts to shape strategies, IdeaLink creates balanced teams that can move projects from vision to reality.

This background highlights the need for a dedicated platform that bridges creativity, technology, and business knowledge—helping early-stage ideas grow into successful projects and startups.

B. Objective

Our platform integrates idea sharing, business strategy support, and technical development into a single, collaborative space. It stands out as the only comprehensive solution that brings together innovators, business experts, and developers in one user-friendly interface. This integration simplifies the process of turning concepts into real products, offering clarity, efficiency, and balanced teamwork.

Whether users are presenting new ideas, shaping business strategies, or building technical solutions, IdeaLink empowers them to collaborate effectively and bring projects to life. By streamlining the journey from concept to execution and eliminating the need for separate tools or scattered communication.

We ensure a seamless experience that strengthens collaboration, supports project growth, and increases the chances of success for early-stage startups.

II.PURPOSE

The IdeaLink platform aims to simplify the journey from idea to product by connecting innovators, developers, and business experts within a single collaborative space. Its purpose is to bridge the gap that often exists in early-stage startups, where idea creators may lack technical or business expertise, and skilled professionals may struggle to find meaningful projects.

What makes IdeaLink unique is its ability to unite all three roles—creators, builders, and strategists—on one platform, ensuring that ideas are not only shared but also developed and guided toward market readiness. By consolidating idea sharing, technical execution, and business strategy into a single environment, IdeaLink reduces barriers that typically slow down innovation.

This integrated approach supports teamwork, enhances clarity, and provides balanced contributions from different fields, giving early ideas a stronger chance of success. Whether users are presenting concepts, building products, or planning strategies, IdeaLink empowers them to collaborate effectively, transform ideas into real projects, and move closer to creating sustainable startups.

III. SCOPE

IdeaLink encompasses a range of functionalities that support collaboration and project development across different domains. It includes **idea sharing**, which allows innovators to present concepts, problem statements, and proposed features, making it easier for others to understand and evaluate new ideas. **Team formation** enables developers and business experts to connect with creators, join projects that match their skills, and build balanced teams.

Technical development is a core part of the platform, where developers contribute by building prototypes, applications, or full-scale products based on submitted ideas. **Business strategy support** provides tools and opportunities for business experts to shape areas such as marketing, finance, fundraising, and growth planning, ensuring projects are prepared for real-world challenges.

The platform also covers collaborative communication, offering a shared space where creators, developers, and strategists can exchange feedback, track progress, and align goals.By integrating these functionalities, IdeaLink reduces the need for scattered tools and disconnected workflows.The scope of IdeaLink extends across innovation, execution, and strategy—making it suitable for early-stage startups, academic projects, entrepreneurial initiatives, and collaborative ventures that aim to turn ideas into successful outcomes.

IV. EXISTING SYSTEM / LITERATURE REVIEW

This environment often sees collaboration among idea creators, developers, and business experts scattered across various platforms. Most systems currently available are built to support only one part of the innovation process. Some platforms let users share ideas, but they do not assist in building teams or turning those ideas into actual products. Others concentrate on freelancing, where professionals tackle short-term tasks rather than focusing on long-term startup ideas.

Many research studies highlight the importance of collaboration in innovation and startup success. Studies show that teams made up of people from different backgrounds, such as technical, business, and creative fields, are more successful than teams with similar skill sets. Working together improves problem-solving, boosts creativity, and speeds up development. Research on online collaboration platforms explains how digital tools help people work together from different locations. However, most platforms mentioned in existing literature focus only on software development or professional networking. They do not support the entire journey from idea creation to business execution.

V. SYSTEM DESIGN

A. Modules

User/Idea

The Idea module is where users can add or submit new ideas with a title, description, and category. Users can also like, comment, or request to work on ideas they find interesting. Ideas can be edited or deleted by their creators.

Project

The Project module turns any selected idea into a working project. It displays the project status, assigned roles, and progress tracking for each participant. Users can see their responsibilities and contributions in the project.

Challenge

The Challenge module lists weekly challenges or issues arising from projects. For example, if a project lacks a business model, it appears here with a set deadline. Users can participate or provide solutions.

Team

The Team module shows users who have joined or are working with you on a project. It helps manage team members, roles, and contributions.

Subscription

Based on the project's focus on collaboration between creators, developers, and business professionals, a subscription Module would be a logical way to offer advanced features for users and teams.

VI. METHODOLOGY & ALGORITHMS

The methodology of the IdeaLink platform focuses on creating a smooth and collaborative environment where idea creators, developers, and business experts can work together to transform ideas into real products. The system follows a structured process that guides users from registration to project development while ensuring effective collaboration and originality through AI support.

A. User Registration and Role Selection

The process begins with user registration on the IdeaLink platform. During registration, users select their role based on their expertise: Idea Creator, Developer, or Business Expert. This role-based approach helps the system personalize the user experience and ensures that users are matched with relevant projects and opportunities.

B. Idea Submission

Idea creators can submit their project ideas by providing details such as the problem statement, proposed solution, features, and target users. This structured idea submission format helps others clearly understand the concept and evaluate its potential. Each idea is stored securely in the system database.

C. AI-Based Idea Analysis

To maintain uniqueness, the platform uses Artificial Intelligence to analyze submitted ideas. The AI compares new ideas with existing submissions to identify similarities and encourage originality. It also categorizes ideas based on domain and keywords, improving visibility and discovery.

D. Project Browsing

Developers and business experts can browse available ideas using filters such as technology stack, business domain, and project goals. AI-based recommendations suggest projects that best match a user's skills and interests, making it easier to find meaningful collaborations.

E. Team Formation

Once interested, developers and business experts can request to join a project. Idea creators review these requests and form a balanced team. This ensures that each project includes technical, business, and creative perspectives, improving the chances of success.

VII. IMPLEMENTATION DETAILS

Programming Language – Kotlin

- Kotlin is used as the primary programming language for Android development.

- It provides clean syntax, better safety, and reduces boilerplate code.

- Kotlin improves app performance and makes the code easier to maintain.

User Interface – Jetpack Compose

- Jetpack Compose is used to build the entire user interface.

- The UI updates automatically when data changes, improving user experience.

- Material Design guidelines are followed for a modern look.

Development Environment

- Android Studio is used as the main development tool.

- Jetpack libraries are integrated for UI and architecture support.

- Compose Preview helps test UI without running the app.

Firebase Authentication

- Firebase Authentication is used for login and registration.

- Email and password authentication is implemented.

- User roles (Idea Creator, Developer, Business Expert) are stored securely.

- Firebase handles session management and user identity.

Firebase Firestore

- Firebase Firestore is used as the cloud database.

- It stores user profiles, ideas, team details, and messages.

- Firestore supports real-time updates for instant data synchronization.

- NoSQL structure allows flexible and scalable data storage.

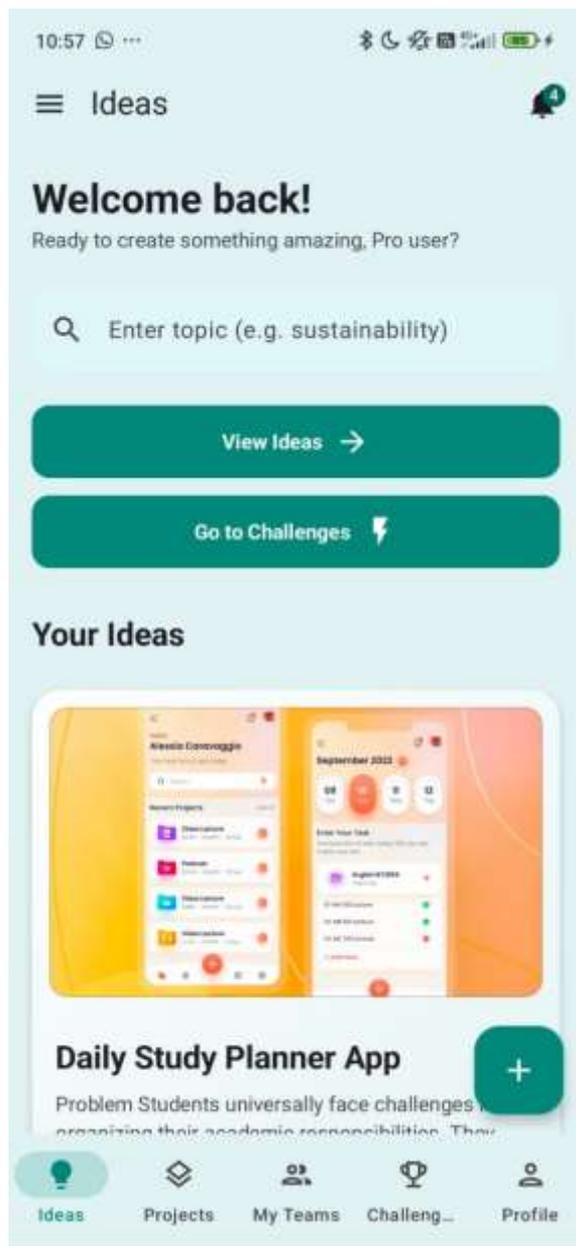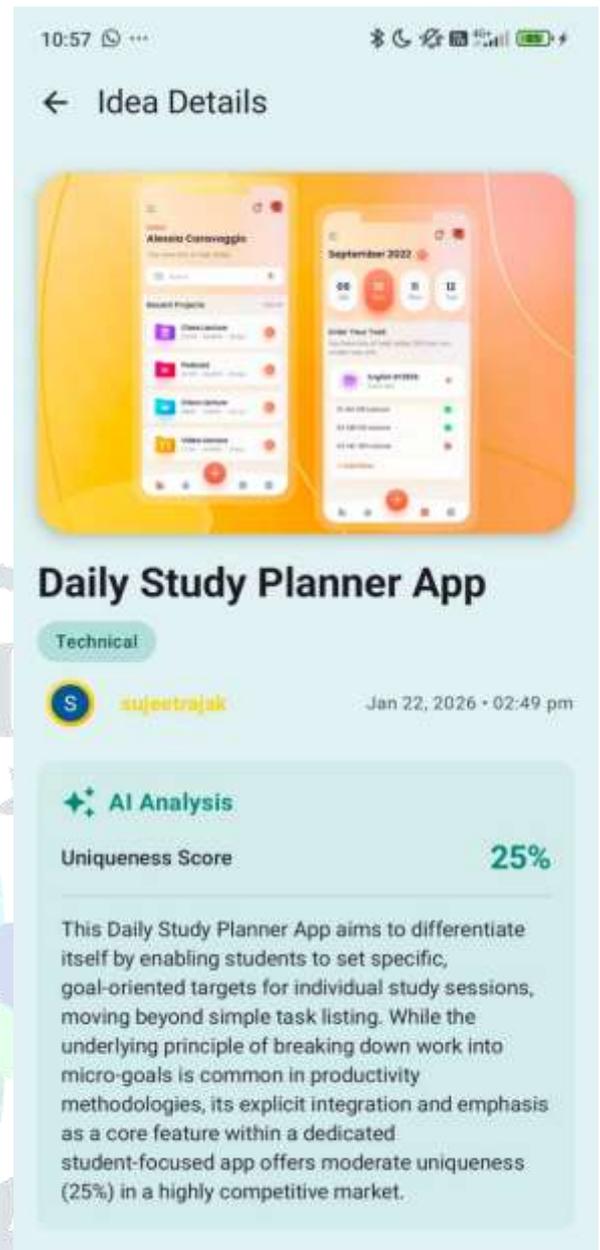## VIII. RESULTS AND DISCUSSION

Figure 1.1

Figure 1.2

IdeaLink addresses one of the most common problems in early-stage innovation: the lack of proper collaboration between idea creators, developers, and business experts. Many promising ideas fail not because they lack value, but because the right people are not available at the right time. IdeaLink reduces this gap by providing a single platform where all essential roles can work together efficiently.

IX. CHALLENGES AND SOLUTIONS

1.COLLABORATION

- Challenge: Disconnection between idea creators, developers, and business experts.

- Solution: Unified platform bringing all roles together.

2.SECURITY

- Challenge: Unauthorized access and data misuse.

- Solution: Firebase Authentication and Security Rules.

3.SCALABILITY

- Challenge: Performance issues with increasing users.

- Solution: Cloud-based Firebase infrastructure.

X. CONCLUSION AND FUTURE WORK

IdeaLink is a potent and user-friendly Android app conceived to help innovators, developers and business people get on the same page. The platform uses real-time data synchronization to keep everyone abreast of changes made to a project. Clean and responsive interfaces offer an intuitive experience for all types of users. Secure authentication and storage of data safeguard proprietary information and project assets from prying eyes. The app can cope with user interactions and any background operations without affecting the overall performance.

IdeaLink platform for future enhancements, whether adjusting its scale (everything or individual features), more universal tools, or incorporating user-centred elements. A big improvement can be support for iOS and web platforms, which will provide users entering via any one device with access to a larger network of possible destinations.

XI. ACKNOWLEDGMENT