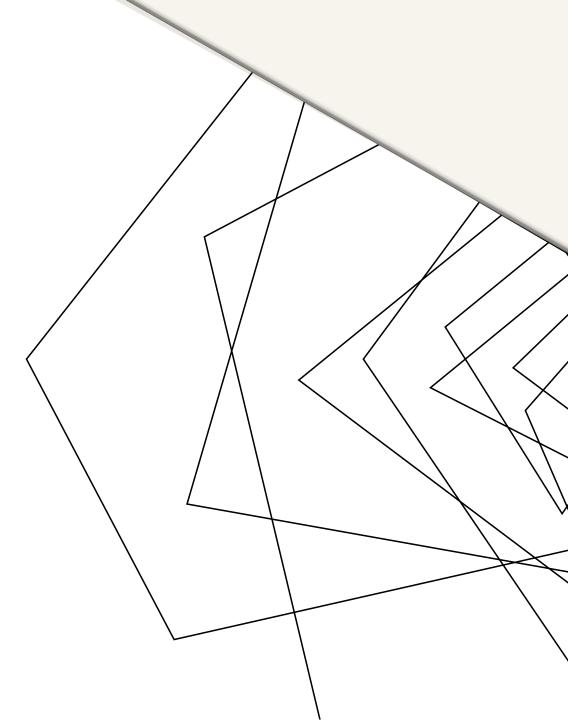


PROBLEM STATEMENT

- Complex Database Management: Database tasks are too technical for non-developers.
- Overwhelming Interfaces: Existing tools are complex for non-technical users.
- Sync Challenges: Manual schema changes create discrepancies with the codebase.
- Collaboration Gaps: Technical and non-technical teams struggle to work together efficiently.
- **Data Visualization**: Non-technical users find it difficult to analyze raw data quickly.

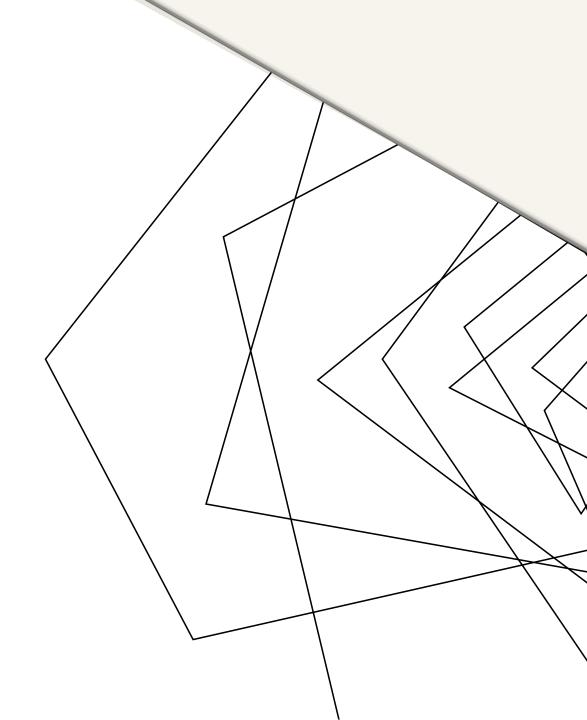


ABOUT DBEASE

- A WEB-BASED PLATFORM FOR MANAGING RELATIONAL AND NON-RELATIONAL DATABASES.
- AUTOMATICALLY SYNCS CHANGES MADE VISUALLY TO A GITHUB PRISMA FILE.
- SUPPORTS OPERATIONS LIKE SCHEMA DESIGN, CRUD, QUERY BUILDING, AND DATA VISUALIZATION.

WHY DBEASE?

- ALLOWS NON-TECHNICAL MANAGERS
 PEOPLE TO MANAGE DATABASES
- PRESENTS AN INTERACTIVE GUI THAT AUTOMATICALLY SYNCS CHANGES TO PRISMA FILE



Technology	Used For
Svelte	Frontend - Building a fast, reactive user interface
Google Firebase (Firestore)	Frontend - Real-time database syncing and storage
Google Clou <mark>d Storage</mark>	Frontend - Storing media files or large datasets
Google Cloud Functions	Backend - Serverless functions for business logic
Google Cloud Run	Backend - Hosting containerized backend services
Prisma ORM	Database - ORM for database schema and query handling
Firebase Authentication	Authentication - Managing user login and security
Google Cloud Hosting	Hosting - Hosting static assets and frontend



- Automatic Prisma File Syncing: Unlike most database management tools, DBEase automatically syncs changes made in the visual interface (schema design, CRUD operations, etc.) directly with the Prisma schema file
- Targeted at Non-Technical Users: DBEase is designed with a user-friendly, interactive GUI that enables non-technical managers and users to perform complex database tasks such as schema design, querying, and data visualization without needing to write code. This is especially valuable for teams with mixed technical expertise.
- Seamless Integration for Collaborative Teams: Designed for teams, DBEase fosters collaboration between technical and non-technical team members by offering an interface that's accessible to everyone
- Visual Query Building with a Focus on Simplicity: DBEase provides a visual query builder that allows users to build complex queries without needing SQL expertise

GOOGLE CLOUD SKILLS BOOST

- Comprehensive Learning Catalog: The platform offers over 980+ learning activities, including courses, labs, and learning paths, covering various Google Cloud technologies
- Hands-on Learning: Users can gain real-world experience by working with actual Google Cloud resources via temporary credentials for labs and exercises
- Learning Formats: Activities are available in different formats, such as bite-sized labs, multi-module courses, and learning paths that combine videos, documentation, labs, and quizzes
- **Custom Learning Paths**: The platform tailors learning experiences to various roles, including cloud architects, data engineers, and machine learning experts, ensuring relevant skill development for specific careers
- Badges and Certifications: Participants can earn Skill Badges and Completion Badges to validate their skills and showcase their achievements on platforms like LinkedIn

CAREER READINESS – ASSOCIATE CLOUD ENGINEER PATH

- Overview: It is a 16-week, on-demand program designed to provide the skills needed to become a certified Google Cloud Associate Cloud Engineer
- Hands-on Labs: The program includes practical, hands-on experience with Google Cloud tools, giving users the opportunity to work directly with cloud environments
- Learning Support: Resources include access to courses, video content, and cloud lab environments to practice real-world tasks, alongside expert advice and tips for exam preparation
- Certification Preparation: By completing the path, participants are prepared for the Associate Cloud Engineer certification exam, which helps validate their cloud engineering skills
- **Support**: Free for all Google Cloud customers, this tier includes access to documentation, community forums, billing support, and basic product recommendations.

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PLACES TO IMPROVE

- High Costs: Both programs have premium pricing for full access to labs, certification
 exams, and advanced support, which can be prohibitive for small businesses or individuals
- Complexity in Choosing Support Tiers: Google Cloud's multiple support tiers can be confusing, making it difficult for new users to select the most appropriate plan
- Steep Learning Curve: Both platforms might be overwhelming for beginners due to their complex cloud environments and technical content
- Limited Flexibility and Regional Availability: The structured nature of the learning paths and regional restrictions on some features may not suit all learner

OTHER PLACES TO IMPROVE

- **Developer Documentation**: Google Cloud's documentation can be fragmented and lacks clarity in some areas. The modular structure often makes it hard to find the necessary information quickly, leading to inefficiencies for developers.
- Google Generative API Schema: The current API function calls return an array instead of a single object, requiring extra steps to filter the result. This increases token usage and operational costs, suggesting a need for more efficient handling of responses.

```
{
    section_name: string
}

section_name: string
}
```



THANK YOU