ACE HACKS

TEAM NAME

PROBLEM STATEMENT & CHALLENGES

- Brief **description** on chosen problem statement and solution.
- Identify **key challenges** from a technical perspective.
- Explain the **scope and limitations** of the problem.
- 1-2 slides.

SOLUTION ARCHITECTURE OVERVIEW

- **High-level architecture diagram** explaining system structure.
- Components and their **interactions** (Frontend, Backend, Database, APIs).
- **Technology stack** overview (Languages, Frameworks, Cloud Services, etc.).

SYSTEM FLOW & COMPONENT INTERACTION

- **Detailed flowchart** explaining how data moves through the system.
- **User interaction with backend and database.**
- Handling **real-time processing, API requests, and authentication.**

BACKEND SYSTEM & DATABASE DESIGN

- **Microservices vs Monolithic** architecture explanation.
- **Database Schema / ER Diagram.**
- How **data transactions and relationships** are handled.

FRONTEND UI/UX & WIREFRAMES

- **Screenshots of UI mockups/wireframes.**
- **User journey and navigation flow**.
- Responsive design considerations (Desktop/Mobile).

PERFORMANCE, SCALABILITY & SECURITY CONSIDERATIONS

- **Scalability Strategy:** Load balancing, cloud deployment.
- **Security Aspects:** Authentication, data encryption, API security.
- **Optimization:** Caching mechanisms, database indexing.

CONCLUSION

- Summary of **technical strengths** of the design.
- Expected **performance benchmarks.**
- Next steps before the final 24-hour hackathon.
- **Team Contact Information.**