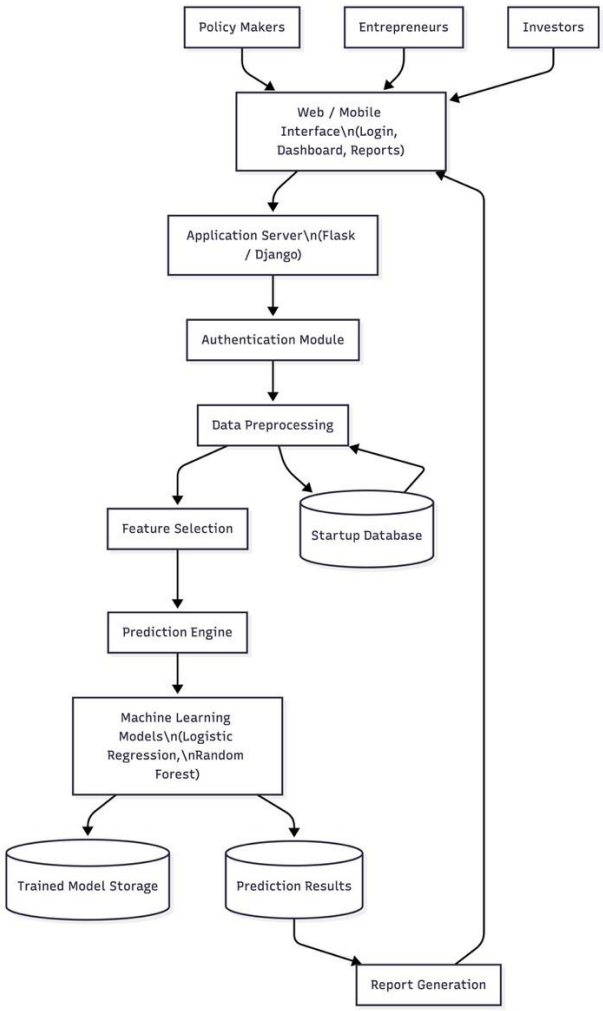
Project Design Phase
Solution Architecture

Date	15 February 2025
Team ID	LTVIP2026TMIDS90479
Project Name	Prosperity Prognosticator – Machine Learning for Startup Success Prediction
Maximum Marks	4 Marks

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, behaviour, 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.



Architecture Flow Explanation

1. Users (policy makers, entrepreneurs, investors) access the system through a **web or mobile interface**.
2. The **presentation layer** allows users to log in, enter startup details, and view prediction results.
3. The **application layer** handles authentication, data preprocessing, feature selection, and communication with ML models.
4. The **machine learning layer** processes the input data using trained models to predict startup success probability.
5. The **data layer** stores startup data, trained models, and prediction results for future analysis.
6. The system generates **reports and insights** to support data-driven decision-making.

Key Architectural Features

- Modular and layered architecture
- Separation of UI, logic, ML, and data
- Supports scalability and maintainability
- Enables easy model upgrades
- Cloud-ready deployment