

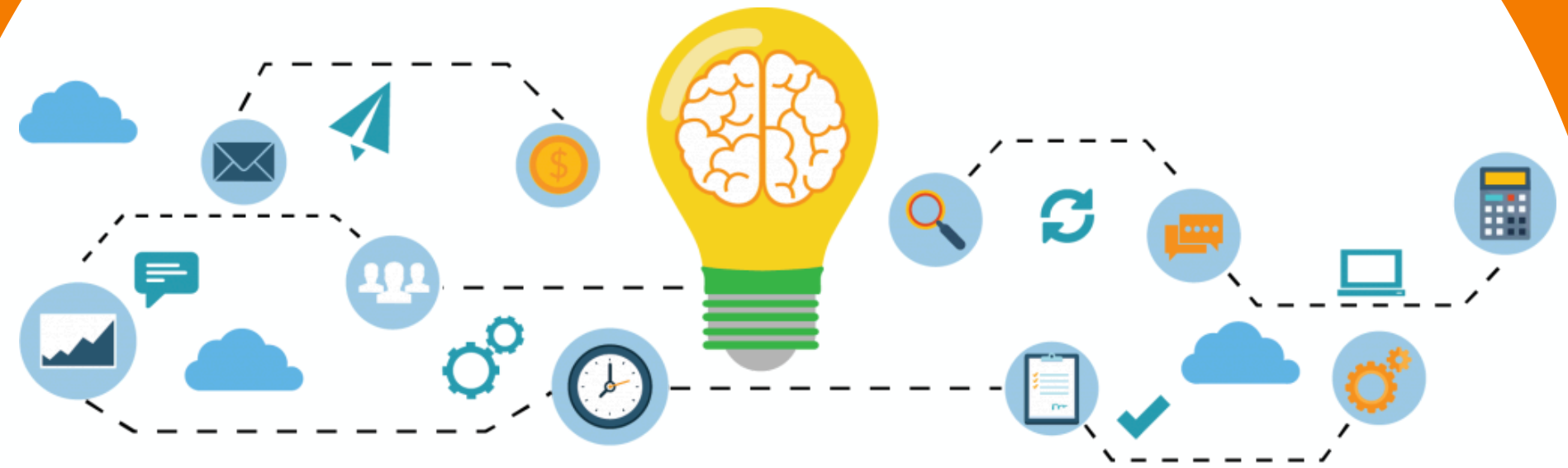
THINK IN BYTES

Imagination meets Innovation

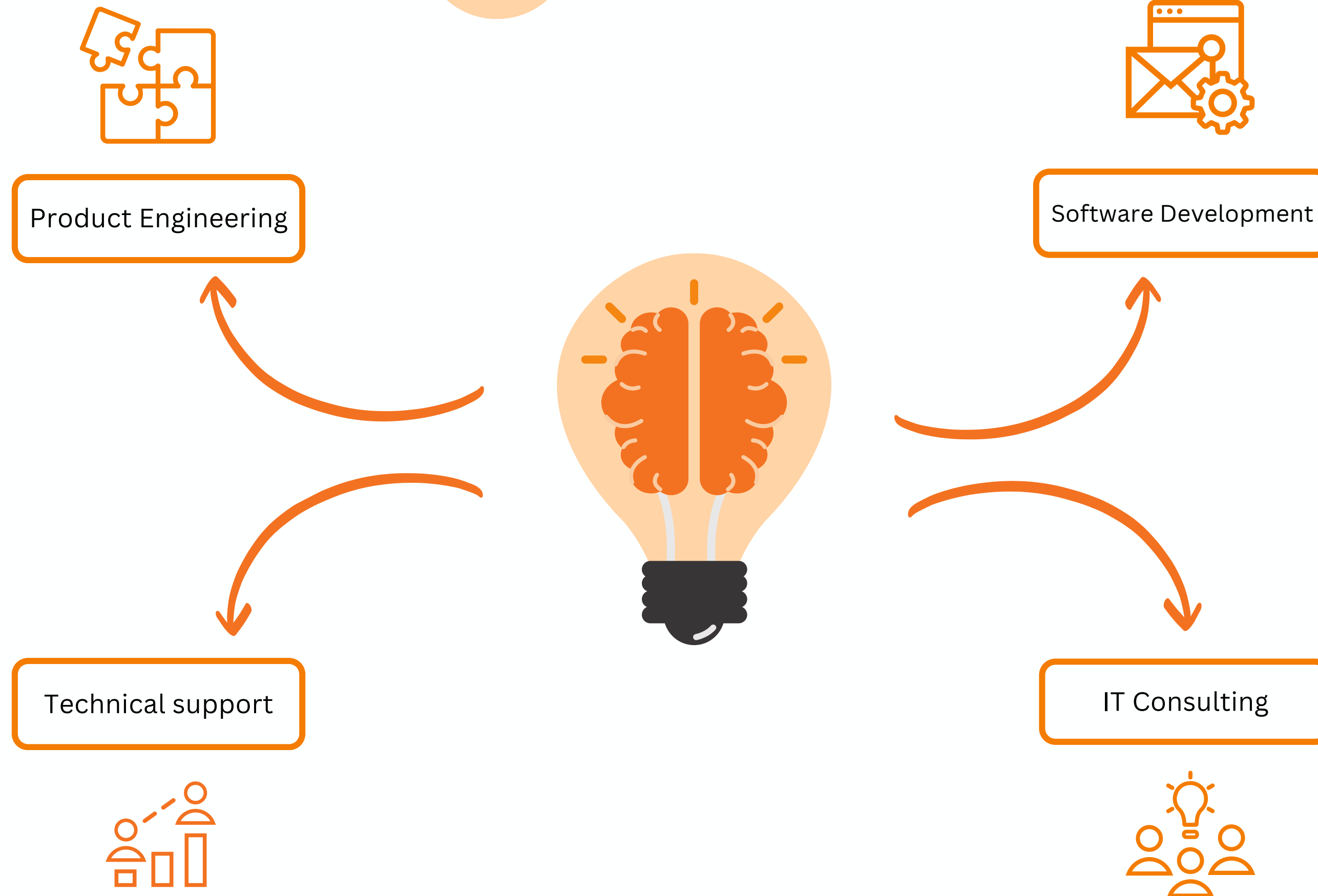
www.thinkinbytes.in

About Think In Bytes

- 01** More than 50 projects delivered for 35+ B2B customers
- 02** 25+ engineers and project managers in house
- 03** More than 7 years of experience with 75% repeat customer ratio
- 04** Flexible business models with hourly & monthly pricing
- 05** Global offices in USA and India



Our Offerings



Technologies

Javascript

Node
React
Angular
Vue

Mobile

Android
iOS
Flutter
React Native

AI / ML

NLP
Computer Vision
Machine learning
Time series

Web

Wordpress
Shopify
HTML / CSS
PHP

IOT

AR / VR
Robotics
Embedded development

Big Data

Hadoop
Scala
Apache Pig

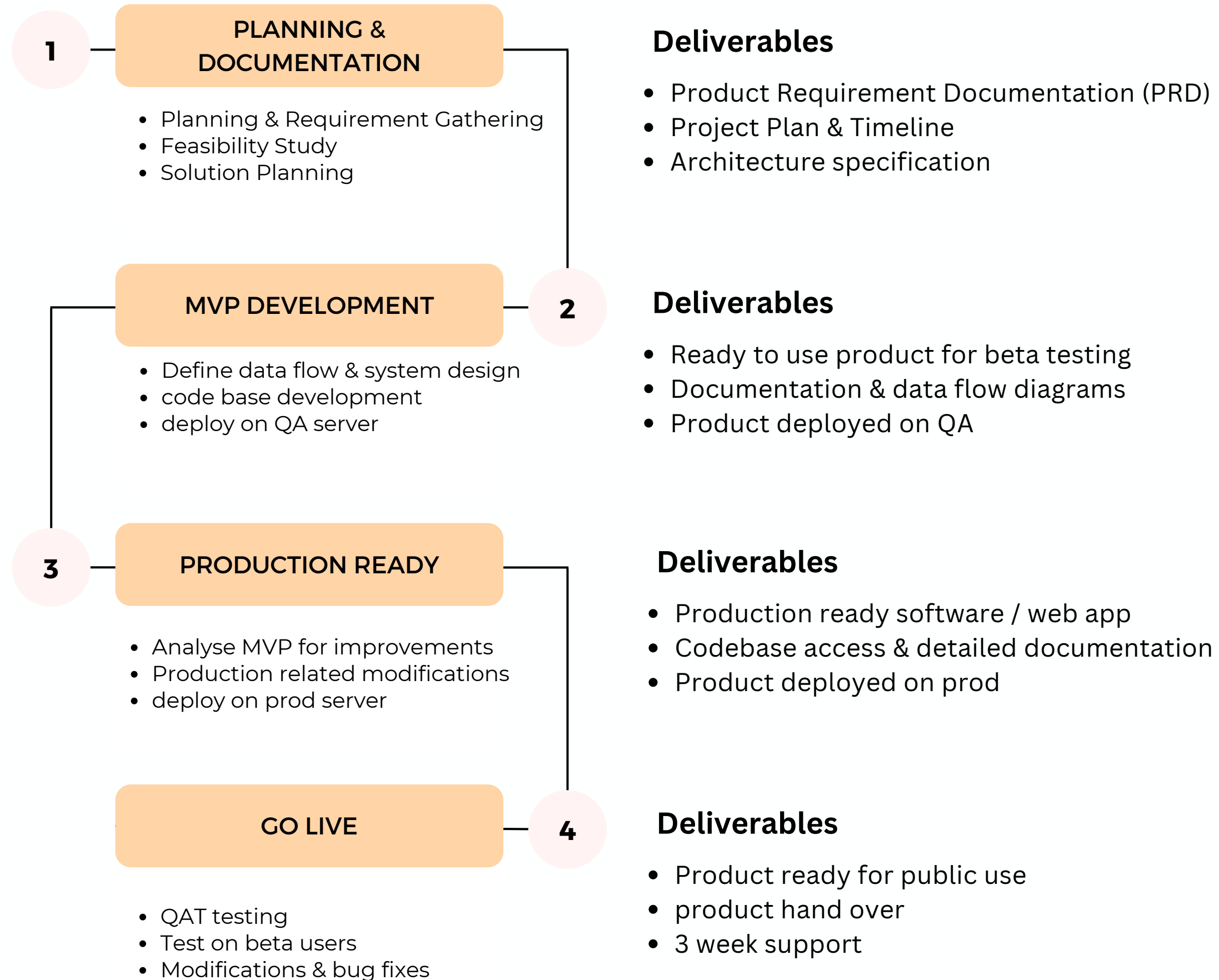
Cloud

AWS
GCP
Azure
Digital Ocean

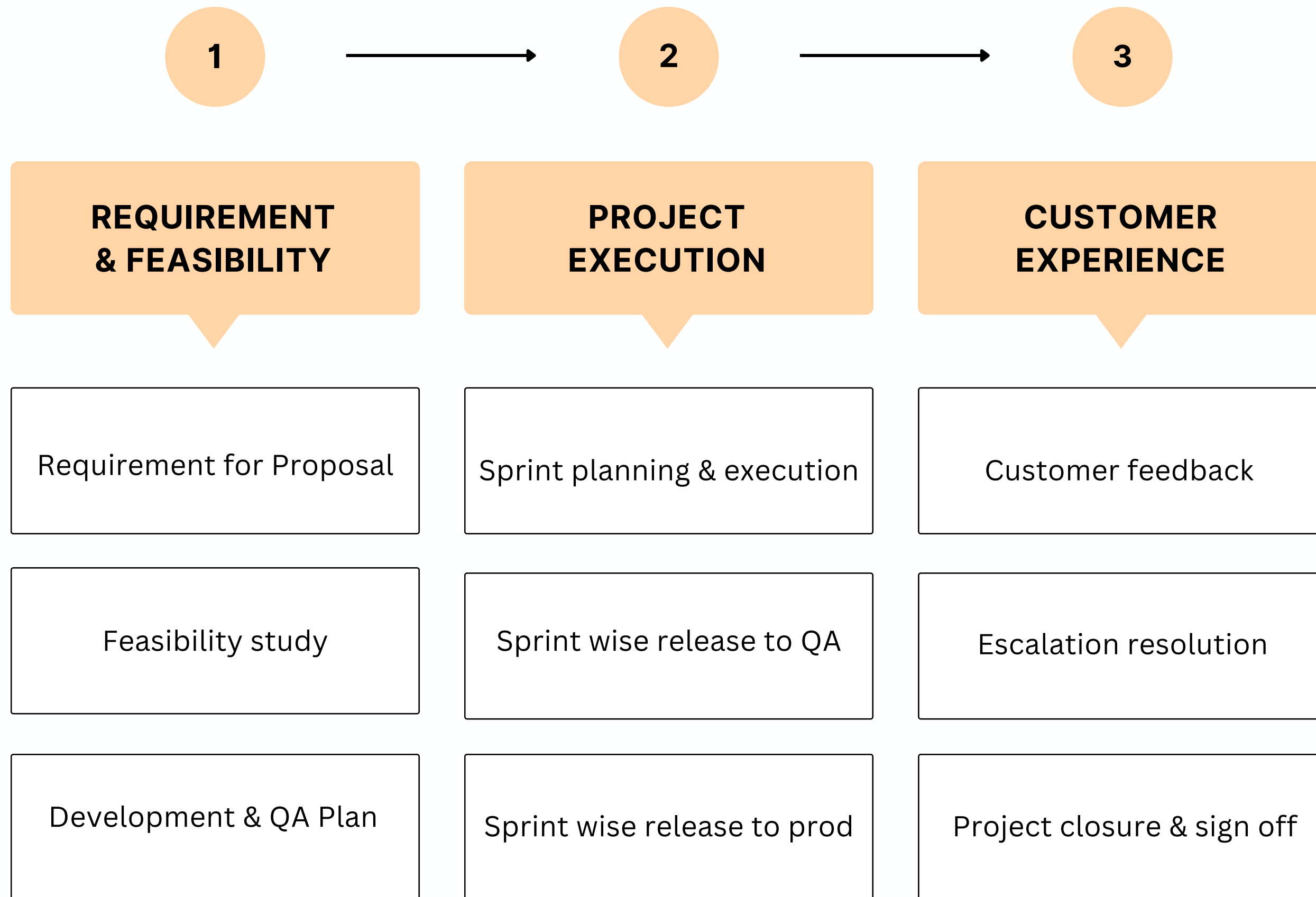
Database

SQL
Mongo DB
Cassandra
Redis

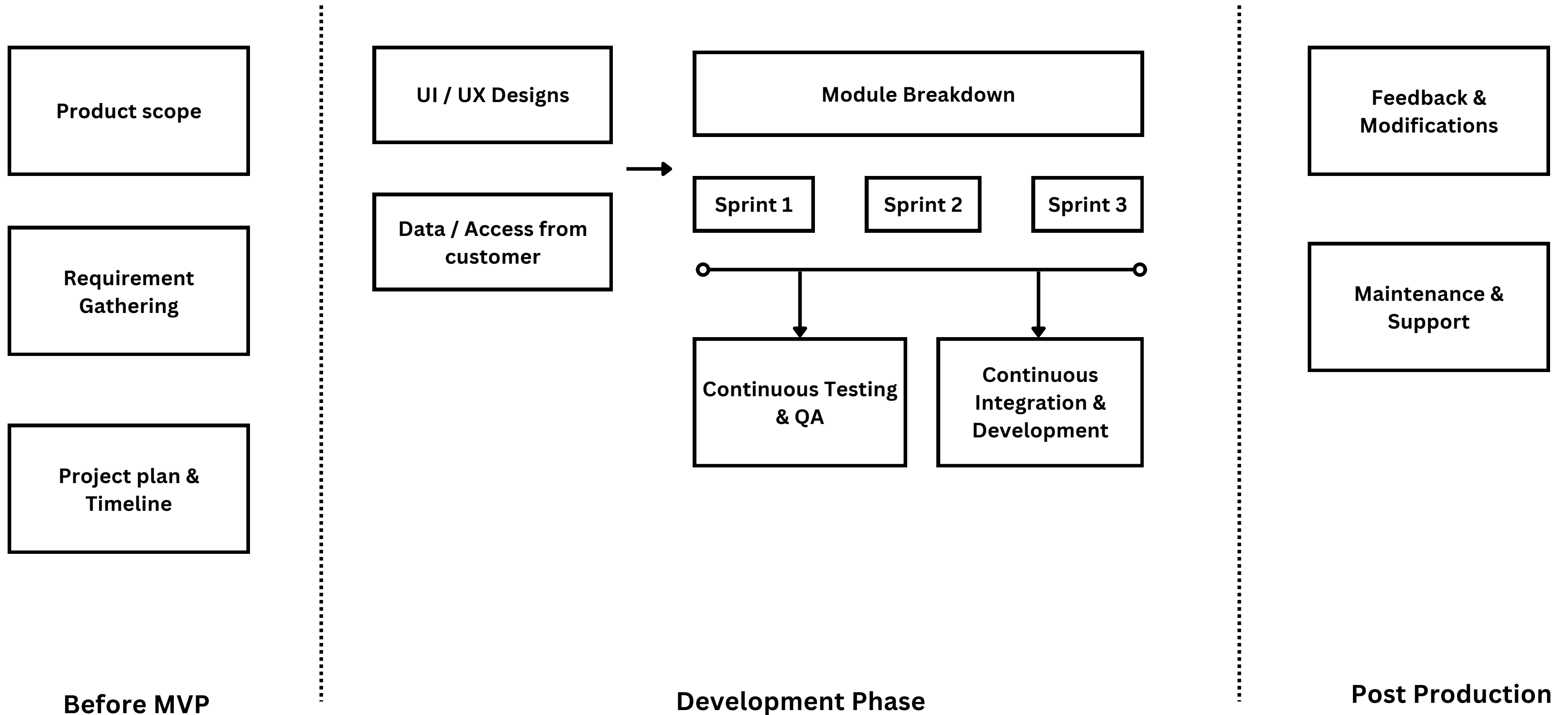
Product Development Lifecycle



Our Three Step process



Collaboration Process



Pricing Structure

Hourly

\$15/hr

- ✓ Ideal for MVP or short term projects
- ✓ Pay only for the hours of development
- ✓ Dedicated product development team
- ✓ Flexible schedule & scope changes
- ✓ Regular communication & updates

Monthly

\$1500

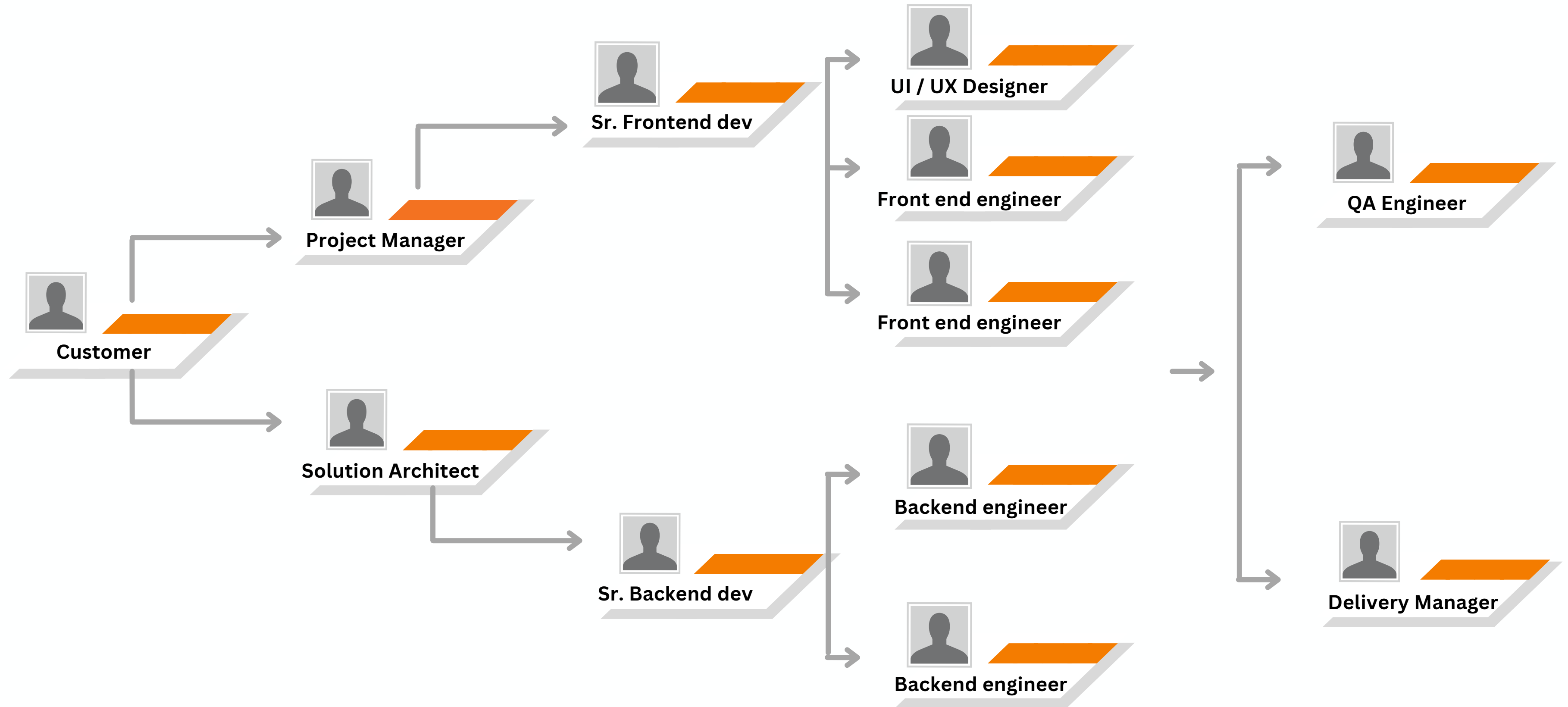
- ✓ Best value for long term projects
- ✓ Predictable monthly billing
- ✓ Dedicated product development team
- ✓ Flexible schedule & scope changes
- ✓ Priority communication & updates

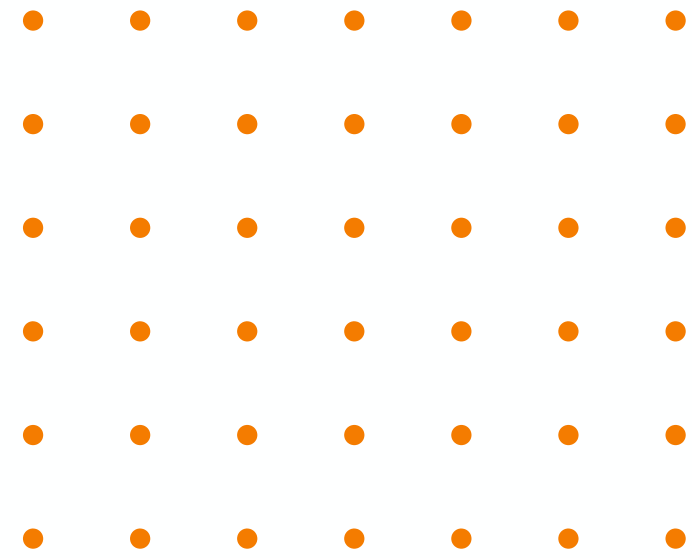
All plans include

- Expert software services
- High quality codebase delivery
- Confidentiality & security
- Regular updates

All prices are calculated per developer basis

Product Engineering Team





Case Studies



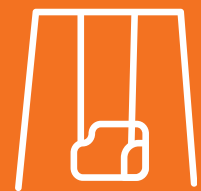
Credit Agreement AI Agent

AI Agent to assist users in understanding credit agreements using Large Language Model



Hybrid Retrieval Augmented Generation

Implemented hybrid search comprising of BM25 elastic search and semantic search for advanced RAG from credit agreement documents and fetch relevant context



Finetuned tokenizer model

Finetuned embeddings model using Huggingface framework to make the model understand financial terminologies better and improve search results and model generation



Qdrant VectorDB Integration

Integrated Qdrant vectorDB to store embeddings along with metadata for accurate search results that can be ingested as context to Large Language Model - OpenAI

OpenAI

Huggingface

Hybrid RAG

VectorDB

AI Pitch deck analyser

Analyse and suggest changes in pitch decks using Large language Model



Multimodal capabilities

Integrated vision + language model capabilities to analyse and provide recommendations for content including the layout, images and colour scheme of the pitch deck.

Finetuned opensource LLMs

Finetuned Mistral 7b and Llava vision model on custom data using Huggingface framework for better results and making the model understand terminologies of investors ecosystem

Custom Query breakdown algorithm

Utilised custom query intent model to breakdown user prompt into MVI (Minimum Viable Information), thus reducing token usage and improving model outputs.

Multimodal LLM

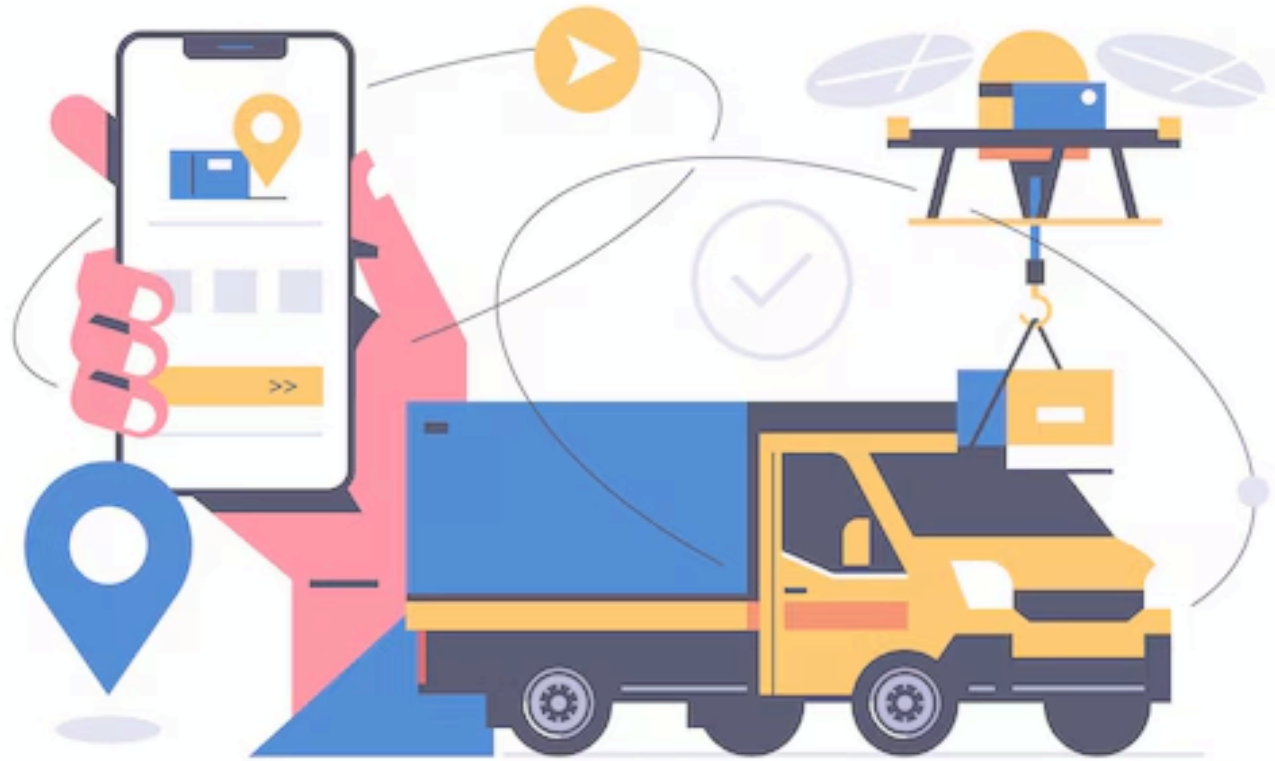
Huggingface

Python

VectorDB

GPS based safer worksites

GPS enabled wearables to protect workers from dangerous zones at construction worksites



Real-Time GPS Tracking firmware

Developed firmware for wearable GPS devices, enabling real-time, high-precision location tracking of workers to allow accurate monitoring near designated dangerous zones.



Low latency Safety Zone Alerts

Integrated geo-fencing to alert workers when they approach hazardous areas. Admins can dynamically map out and update dangerous zones, enhancing on-site safety and compliance.



Resource Management and Reporting

Coupled with an Android app for workers, to facilitate precise tracking of labor and material requirements. This app supports workers in reporting site progress efficiently.

IoT Firmware

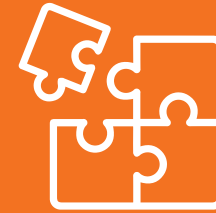
Android

Node JS

MongoDB

Rewards & Recognition Portal

Microsoft Teams extension for a rewards & recognition portal



Seamless Integration with Ms Teams

Utilized Microsoft Teams SDK to create a robust Teams App, ensuring a smooth user experience by mirroring portal actions within the Teams interface.



Timely Notification and Synchronisation

Implemented API polling to check for notifications and looks up for the users teams id from the database and sends notifications to the relevant users



Maintaining database consistency

Employed data synchronization mechanisms and maintained consistency between databases, ensuring that any action performed on the Teams App reflects accurately on web portal

Microsoft SDK

React JS

Node JS

PostgreSQL

AI Athletic Assistant

Computer vision based injury proneness detection



Accurate athletic movement detection

Finetuned Tensorflow pose estimation with custom data for better accuracy and precisely track and interpret the movements of athletes during training sessions.



Privacy enabled pose estimation

To maintain user confidentiality & privacy, we only store pose skeleton video data preserving users identity while recording progress and recommending posture improvements



Highly scalable system

Developed scalable architecture using AWS ELB - load balancers that can adapt to different training routines, making the system applicable across wide range of athletic disciplines.

Computer Vision

Tensorflow

Python

AWS Cloud

AI Compliance Assurance

AI based uniform compliances violation detection from CCTV feed



Efficient object detection on edge device

Implemented a microservices architecture that collected frames on the edge, storing them locally. Frames were sent in batches to Amazon S3, increasing throughput on edge device



Ensuring load balancing on AI Engine

Orchestrated the AI engine deployment using Kubernetes on an EKS cluster, ensuring scalability, resource optimization, and efficient management of the object detection model.



Restrict live stream outside network

Developed a decoupled approach to send frames from edge device to S3 in batches. The AI engine, hosted on Kubernetes cluster, fetched frames from S3 ensuring data security

Computer Vision

Tensorflow

Python

AWS Cloud

Automated Tax filing system

941 and 401k Automation using payroll aggregator APIs



Accurate computation and formatting

Employed the middleware to perform all necessary calculations and performed unit testing and regressive testing and every stage ensuring precision and compliance.



Securing sensitive data as per compliances

Utilized Amazon S3 for secure data storage, implementing encryption and access controls to protect the confidentiality and integrity of stored information.



Faster Retrieval & Search

We implemented elastic search to provide client with a facility to search through records and built an intuitive dashboard which shows real-time statistics of the reports generated.

Node JS

Angular

AWS Cloud

PostgreSQL



Our Leaders



Darshil Modi
CEO



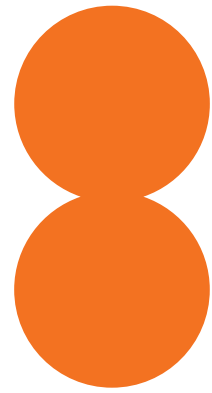
Kinjal Mehta
CTO



Hamza Farooq
Advisor
(Ex Google)



Maulik Desai
Advisor
(Ex samsung)



READY TO INNOVATE ?

Reach out.

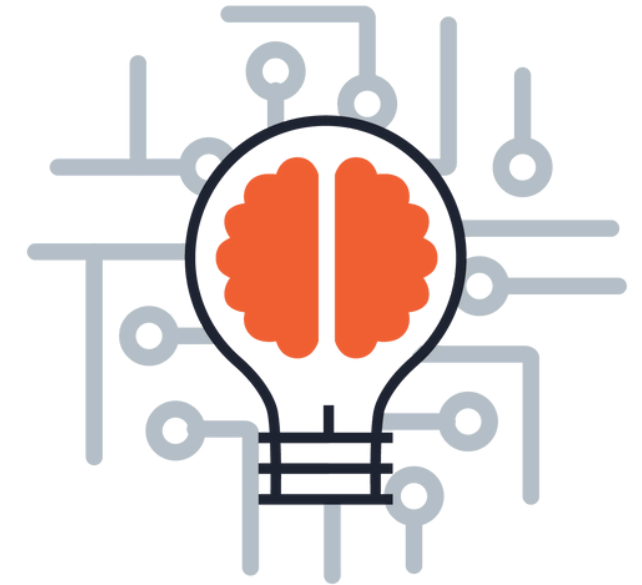


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