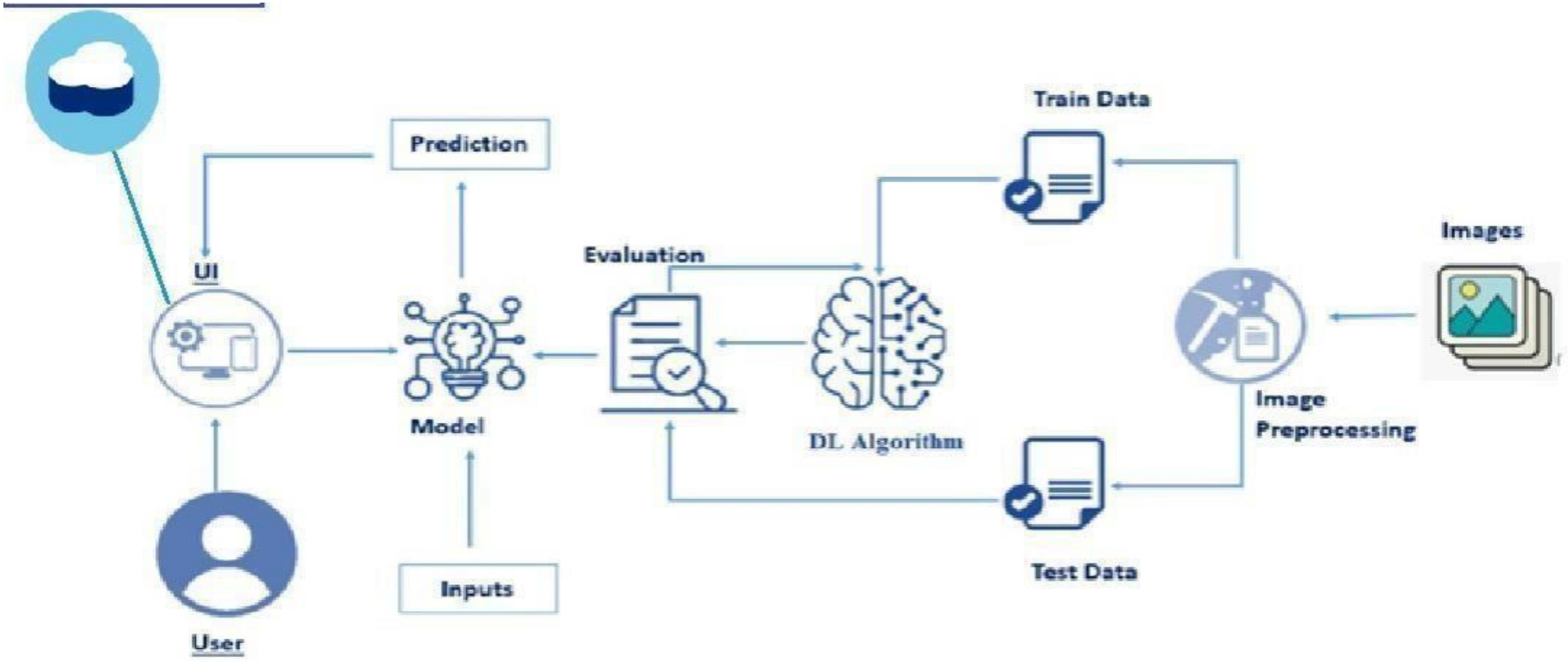
Project Design Phase-II

Technology Architecture

Date	14 October 2022
Team ID	PNT2022TMID18155
Project Name	Intelligent Vehicle Damage Assessment and Cost Estimation for Insurance Companies
Maximum Marks	4 Marks

Technology Architecture:



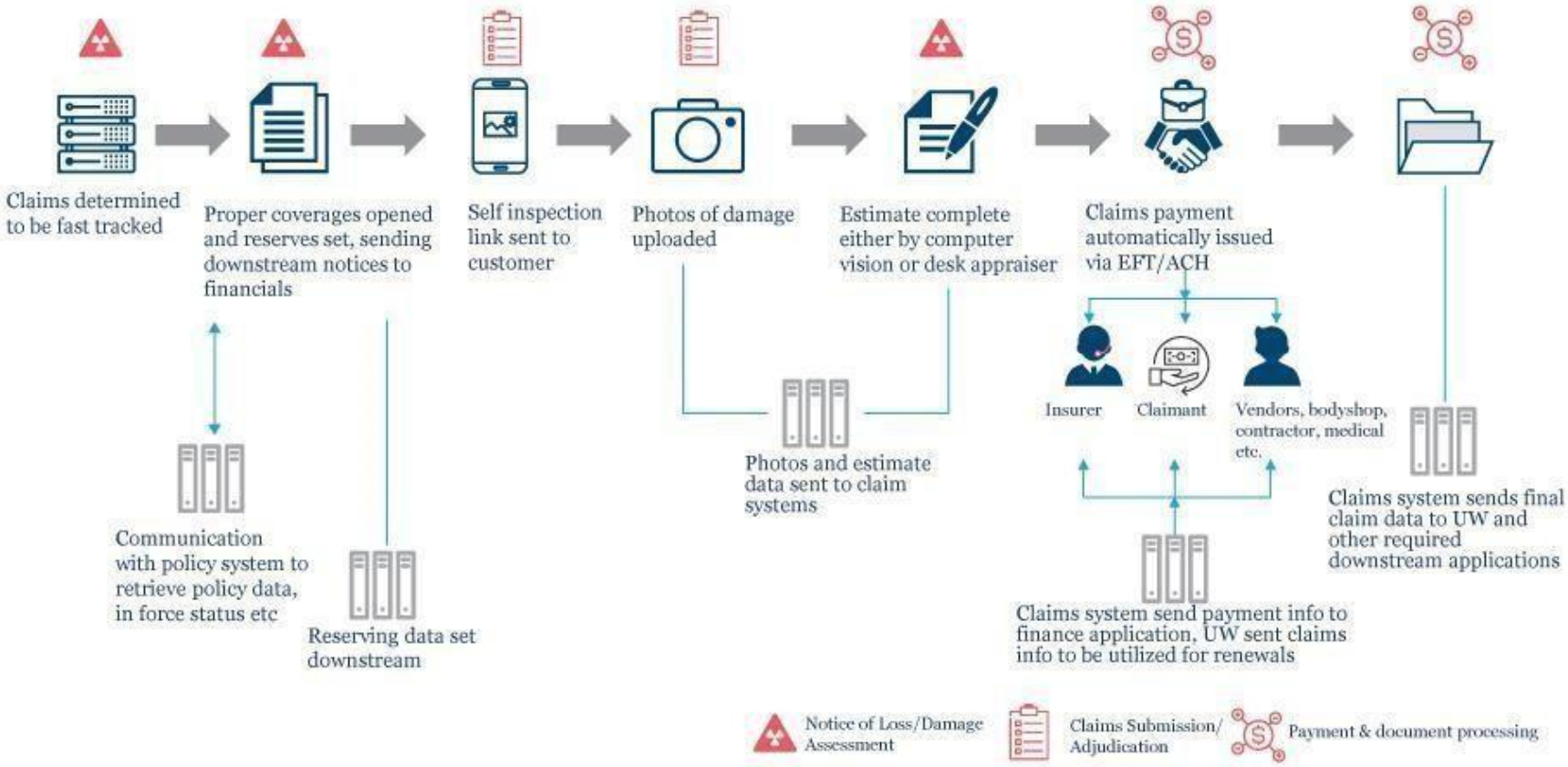

Claims determined to be fast tracked
Proper coverages opened and reserves set, sending downstream notices to financials
Self inspection link sent to customer
Photos of damage uploaded
Estimate complete either by computer vision or desk appraiser
Claims payment automatically issued via EFT/ACH
Insurer
Claimant
Vendors, bodyshop, contractor, medical etc.
Claims system sends final claim data to UW and other required downstream applications
Communication with policy system to retrieve policy data, in force status etc
Reserving data set downstream
Photos and estimate data sent to claim systems
Claims system send payment info to finance application, UW sent claims info to be utilized for renewals
Notice of Loss/Damage Assessment
Claims Submission/ Adjudication
Payment & document processing

Table-1: Components & Technologies:

S. No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g., Mobile Application	HTML, CSS, JavaScript.
2.	Application Logic-1	Logic for a process in the application	Python
3.	Application Logic-2	Logic for a process in the application	IBM Watson STT service
4.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	MySQL, Deep learning
6.	Cloud Database	Database Service on AI	IBM Cloudant DB
7.	File Storage	File storage is more.	IBM Block Storage or Other Storage Service or Local Filesystem
8.	AI Model	Purpose of AI Model is for estimating the cost of the damaged vehicle.	IBM AI Platform
9.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Cloud Foundry, etc.