# PROJECT DESIGN PHASE-II

## Technology Architecture

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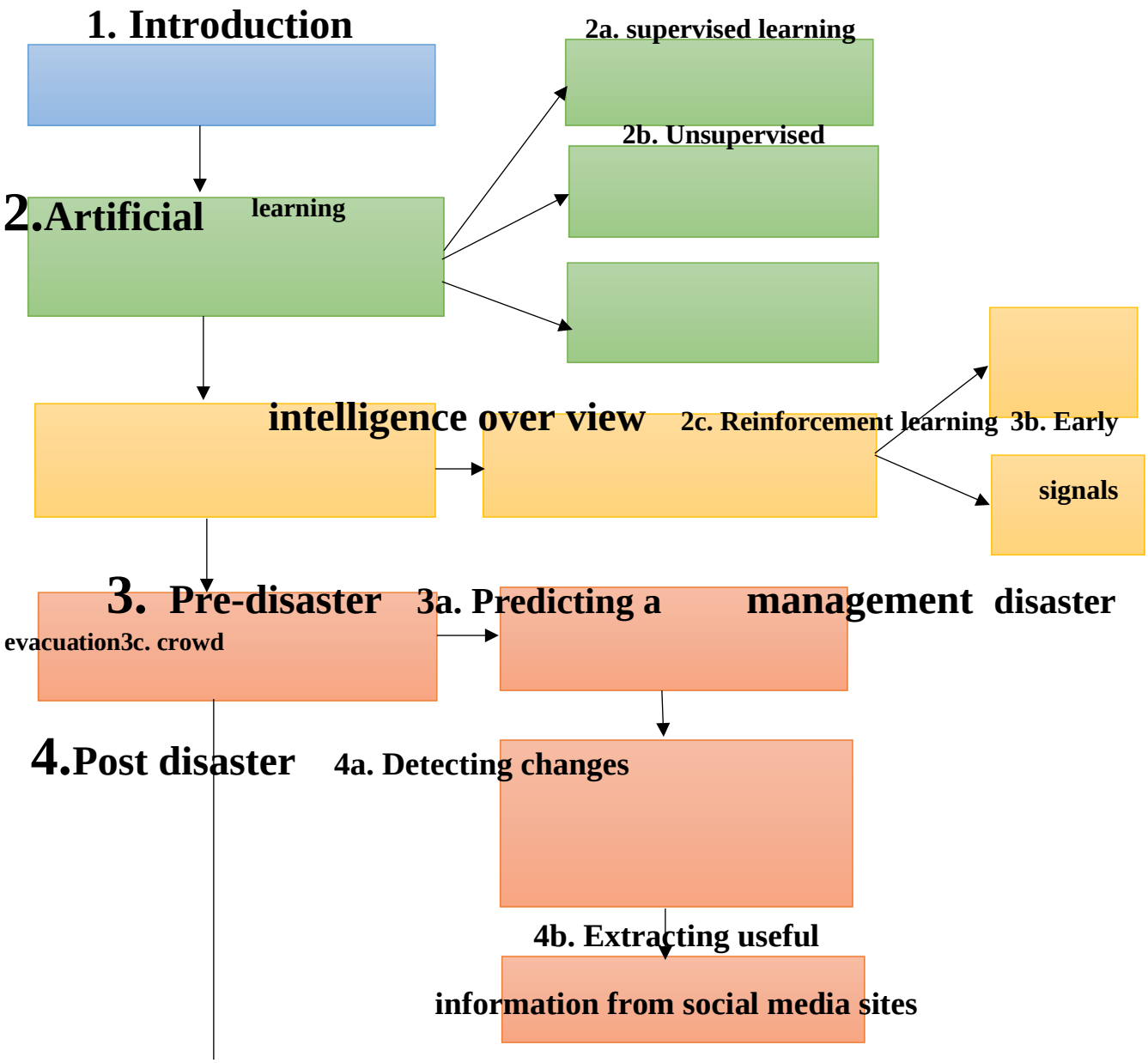
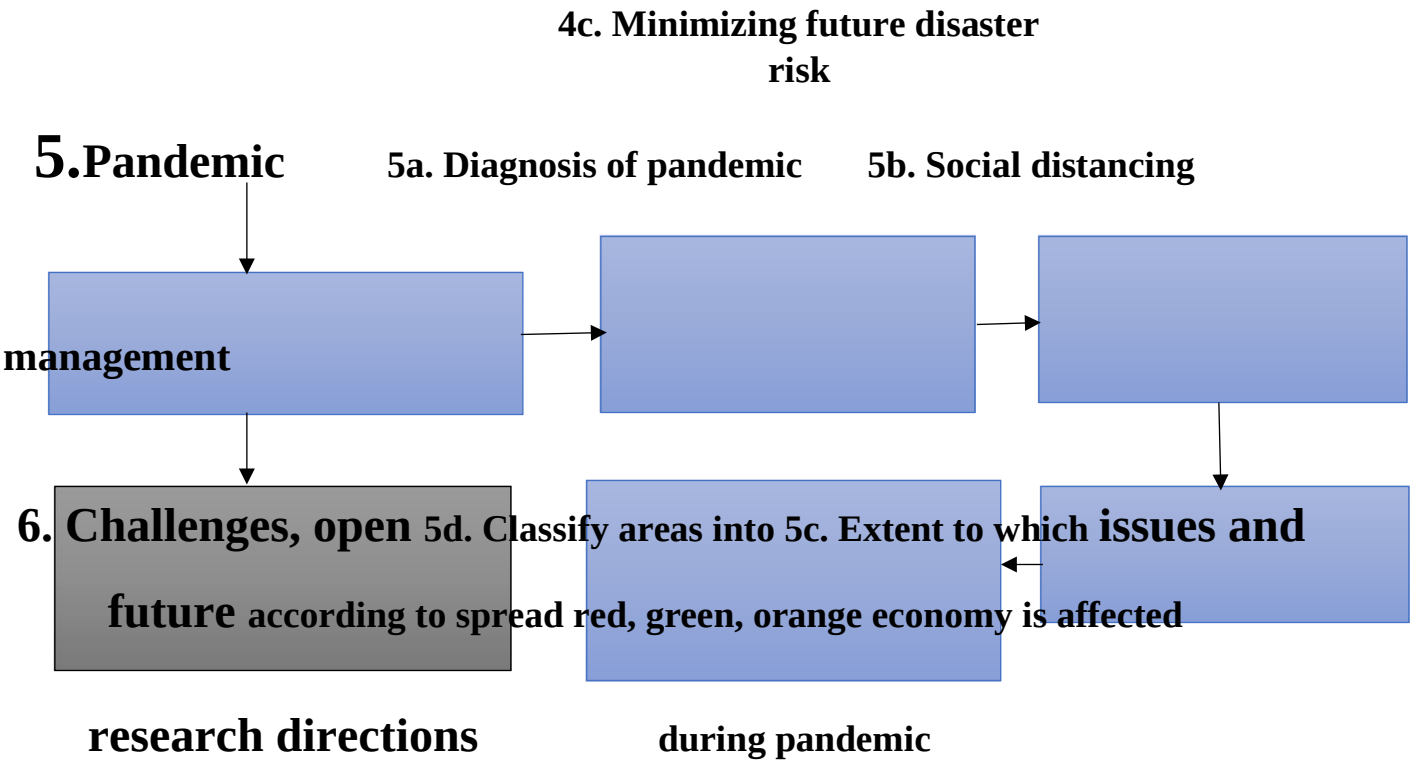
|---|---|
| Date | 19 October 2022 |
| Team ID | PNT2022TMID51618 |
| Project name | Natural disaster intensity analysis and classification using artificial intelligence |
| Maximum marks | 4 marks |

## Technical Architecture:






## Table-1: Components and Technologies

| S.no | Component | description | technology |
|---|---|---|---|
| 1. | Support vector machine | Logic for process in the application | Python, SQL |
| 2. | Linear | Logic for a process in the application | AI |
| 3. | Database | Datatype, configurations, etc. | MySQL, NoSQL, etc. |
| 4. | Pooling layer | Database service on cloud | IBM DB2, IBM Cloudant, etc. |
| 5. | File storage | File storage requirements | IBM block storage or other storage service or local file system |
| 6. | Decision tree | Purpose of external API used in the application | IBM weather API, etc. |

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|---|---|---|---|
| 7. | External API-2 | Purpose of external API used in the application | Aadhar API, etc. |

**Table-2: Application Characteristics**

| S.no | characteristics | description | technology |
|---|---|---|---|
| 1. | Open-source frameworks | Functional discriminant analysis | Source code, design documents |
| 2. | Security implementations | Geographical information to share problems in prediction | Seismographs, creepmeters |
| 3. | Scalable architecture | Signal processing, image processing are using scalable natural disasters | GPS (global positioning system) |
| 4. | Availability | AI system information from seismic imaging earthquake predictors solve some techniques | NDRF, seismic intensity meters |
| 5. | Performance | Web-enabled awareness research network can help save lives and limit the impacts of natural disasters | Land-based sensors, radar sensors. |