**ProjectDesignPhase-II**
**DataFlowDiagram&UserStories**

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|---|---|
| **Date** | **10October2022** |
| **Team ID** | **PNT2022TMID42920** |
| **Project Name** | **NaturalDisasterIntensityAnalysisand Classification Using ArtificialIntelligence** |
| **Maximum Marks** | **4Marks** |

## DataFlow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation ofthe information flows within a system. A neat and clear DFD candepict the right amount of the system requirement graphically. Itshows how data enters and leaves the system, what changes theinformation,and wheredataisstored.

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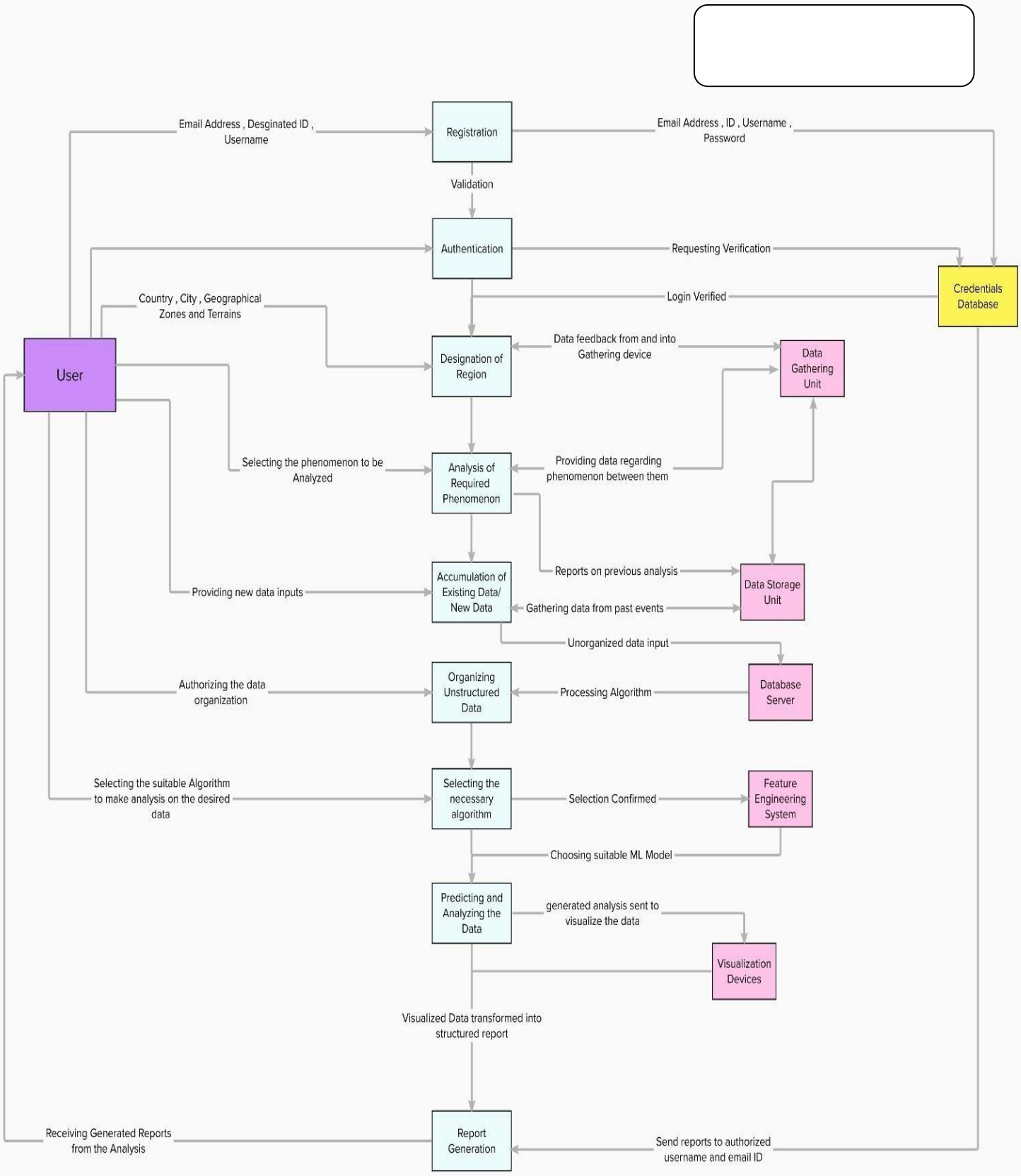
Registration
Email Address , Desginated ID , Username
Email Address , ID , Username , Password
Validation
Authentication
Requesting Verification
Credentials Database
Login Verified
User
Country , City , Geographical Zones and Terrains
Designation of Region
Data feedback from and into Gathering device
Data Gathering Unit
Selecting the phenomenon to be Analyzed
Analysis of Required Phenomenon
Providing data regarding phenomenon between them
Reports on previous analysis
Data Storage Unit
Providing new data inputs
Accumulation of Existing Data/ New Data
Gathering data from past events
Unorganized data input
Authorizing the data organization
Organizing Unstructured Data
Processing Algorithm
Database Server
Selecting the suitable Algorithm to make analysis on the desired data
Selecting the necessary algorithm
Selection Confirmed
Feature Engineering System
Choosing suitable ML Model
Predicting and Analyzing the Data
generated analysis sent to visualize the data
Visualization Devices
Visualized Data transformed into structured report
Receiving Generated Reports from the Analysis
Report Generation
Send reports to authorized username and email ID

## **UserStories**:

| User Type | FunctionalRequirement(Epic) | UserStoryNumber(USN) | UserStory/Task | Acceptance criteria | Priority | Release |
|---|---|---|---|---|---|---|
| Enduser (Customer) | Registration | USN-1 | Asauser,Iamabletoregisterwith theproductusingmyvalidemailaddress | I should be able toregisterwithmyaccountcredentials | High | Sprint-1 |
| EndUser (Customer) | Authentication | USN-2 | Asauser,Iamabletologin into the systemwithmycredentials | It should ensuresmooth logincapabilities withoutdelay | High | Sprint-1 |
| EndUser (Customer) | Designation ofRegion | USN-3 | Icanselecttheregionof interest to bemonitored andanalyzed | Imustbeabletochoose certainspecific placeswithouterror | High | Sprint-1 |
| EndUser (Customer) | Analysis ofRequiredPhenomenon | USN-4 | I am able to monitorcertain factors thatinfluencetheactions ofthephenomenon | Itshouldconsiderand monitor mostof the factorsinvolved in theaction | High | Sprint-2 |
| EndUser (Customer) | Accumulation of requiredData | USN-5 | I am able to gatherdata regarding pastevents and a detailedreportonpastanalysis | Itshouldallowthestorage of data ofpast events forcertainextent | Medium | Sprint-2 |
| EndUser (Customer) | OrganizingUnstructureddata | USN-6 | Iamabletoorganizeand restructure theraw data into refineddata | It should ensureeasy and efficientprocessingmethods | Low | Sprint-3 |
| EndUser (Customer) | Algorithm selection | USN-7 | I am able to choosetherequiredalgorithmforaspecificanalysis | It must providevarious options forthealgorithmtobeused | High | Sprint-2 |
| EndUser (Customer) | Prediction andanalysisofdata | USN-8 | I am able to easilypredict and visualizethedata | Itshouldalloweasyto use predictionand visualizationtechniques | High | Sprint-3 |
| EndUser (Customer) | Reportgeneration | USN-9 | I am able to generatea clear and detailedreportontheanalysis | Report generationmust be fast andefficientandshouldnotbecomplex | Medium | Sprint-4 |