Project Design Phase-I
Solution Architecture

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Team Members	Shanmugapriya P, Monika B , Aruna A , Sindhumeenal T , Dhanushiya Y
Project Name	Digital Naturalist - AI Enabled tool for Biodiversity Researchers
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:

1. Find the to best tech solution solve existing business problems.

2. Describe the structure, characteristics, behavior, and other aspects of the software to project stakeholders.

3. Define features, development phases, and solution requirements.

4. Provide specifications according to which the solution is defined, managed, and delivered.

Solution Architecture Diagram:

```
┌──────────┐       ┌────────────────────┐
│   Data   │ ═════>│  Data preprocessing │
└──────────┘       └────────────────────┘
Image dataset stored and          │
managed using MongoDB             │  Data pre-processing and fetching
                                  │  is done by IBM watson assistant
                                  ▼
                        ┌────────────────────┐
                        │    Data splitting   │
                        └────────────────────┘
```

CNN Model (Evalution)

Test set

Test set

Compiled model

Training Cnn model

Deploy cnn model

Model Evaluation

Input (Images)

Predicted image

Display prediction in UI

Naturalist