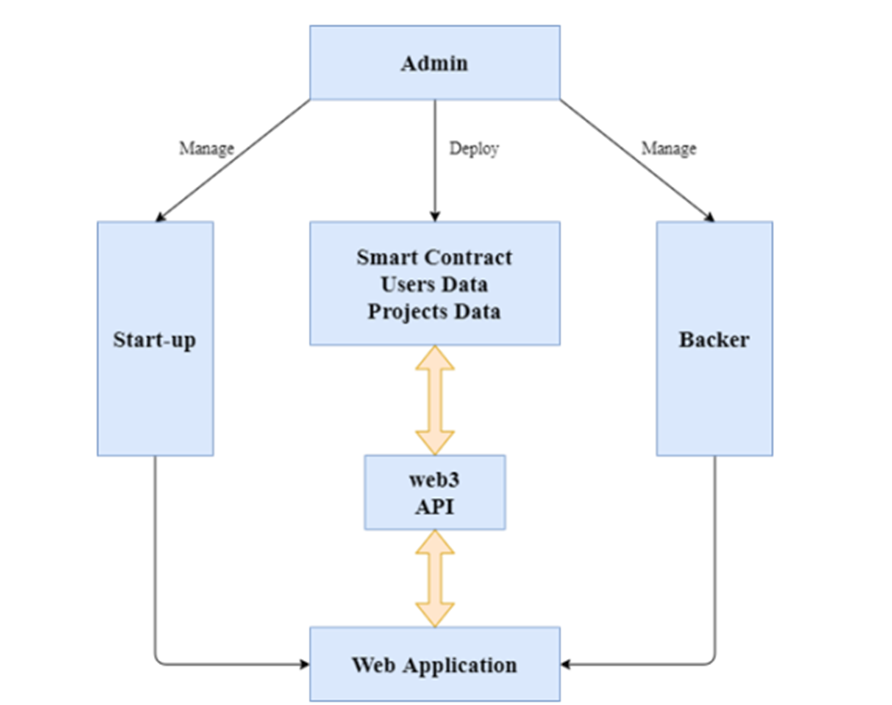
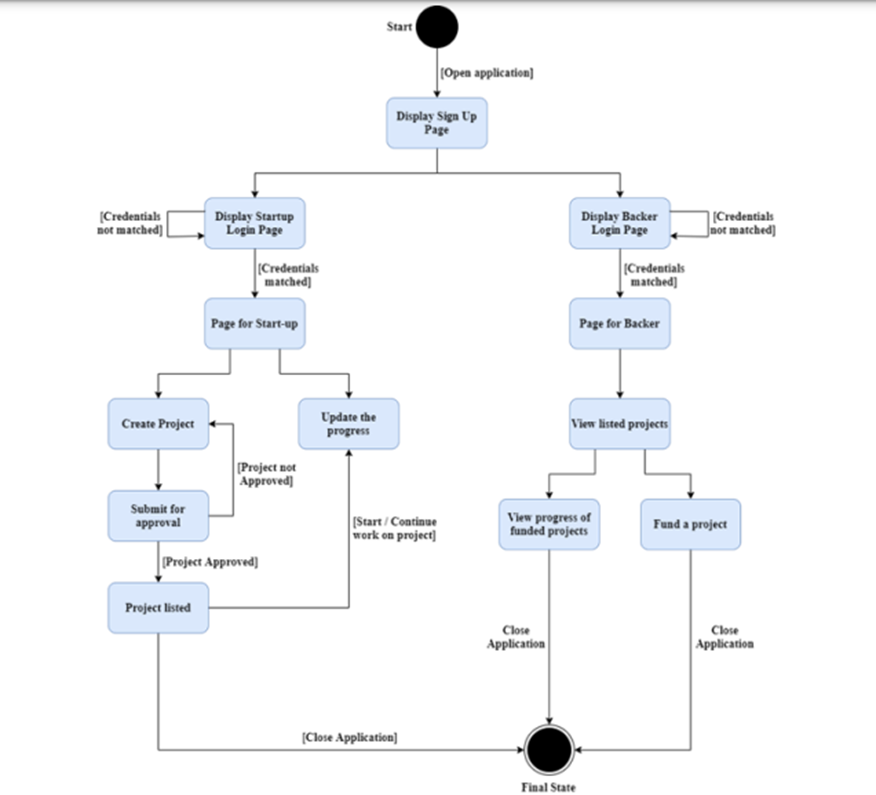
**SYSTEM DESIGN**

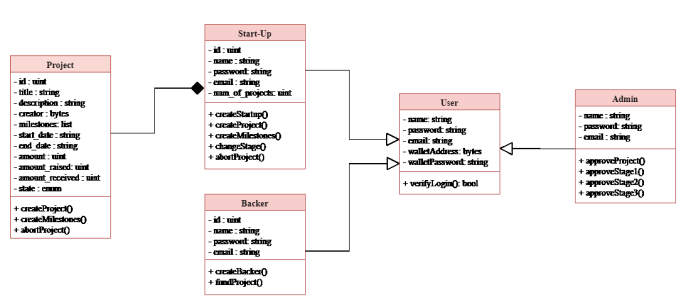
**Architecture Diagram**

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**State Diagram**

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**Class Diagram**

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