WHAT IS SOFTWARE

Software is a set of Instruction, data or Programs used to Operate Computers and Execute Specific Tasks.

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Software in another Words

Software is Responsible
for Managing and
Controlling the
hardware components of
a computer system

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What is Software Engineering

It is a Systematic and Disciplined approach to software development that aims to create high-quality, reliable, and Maintainable Software.

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What is Software Engineering in Simple Words:

Based on the requirements, software Engineers create a high-level design that outlines the overall architecture and structure of the software system.

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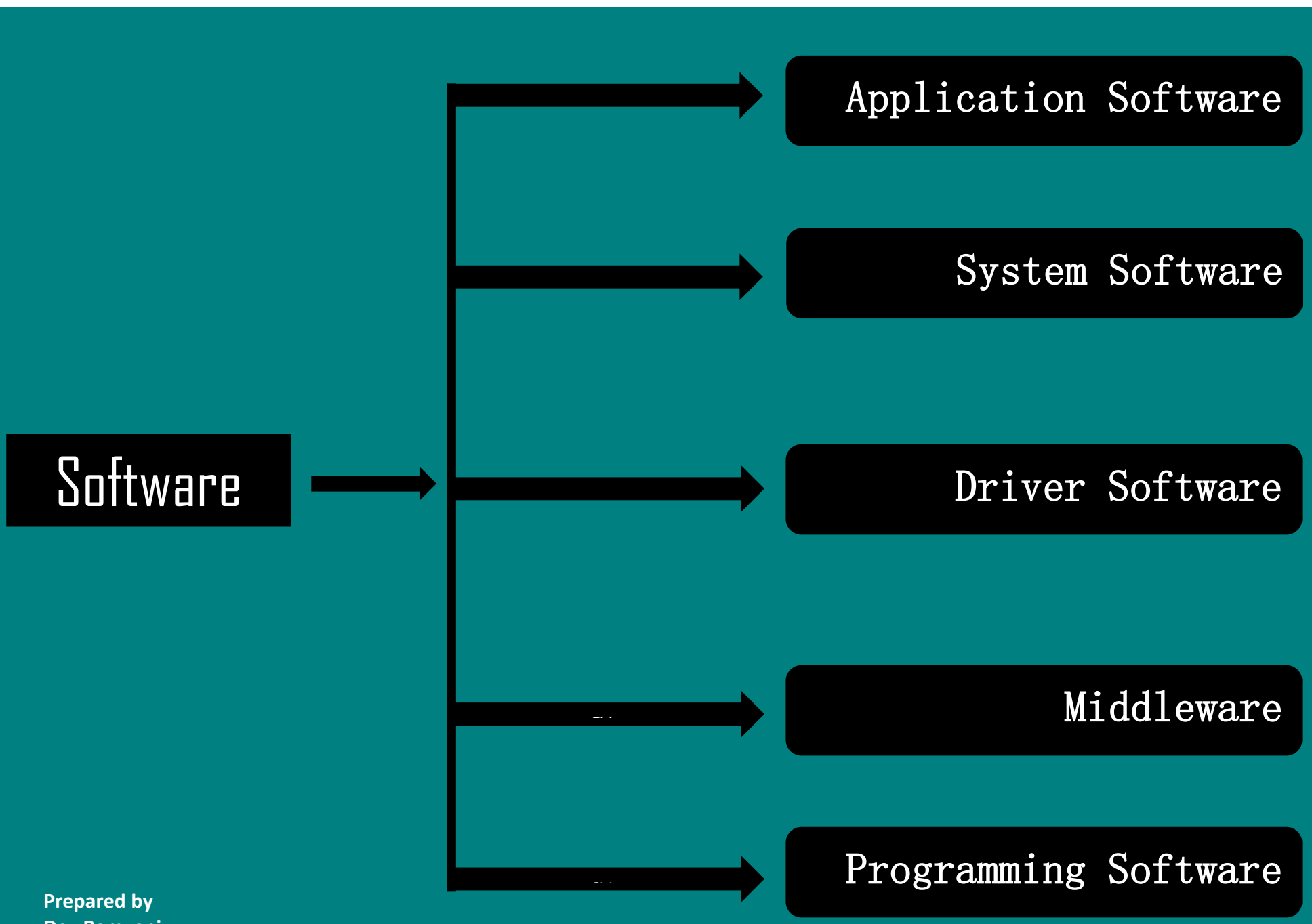

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Application Software	System Software	MiddleWare Software
The computer program that Performs a Specific Personal, Educational, and Business Function. TYPES OF APPLICATION SOFTWARE: • Productivity Software • Web Browsers Software • Graphics & Design Software • Gaming Software • Communication Software • Business Software	The computer program that is designed to run a computer's hardware and application programs TYPES OF SYSTEM SOFTWARE: • Operating System • Device Drivers	The software that lies between an operating system and the applications running on it. TYPES OF MIDDLEWARE SOFTWARE • Database Management Systems • Web Servers • Middleware for Integration

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Programming Software

Programming Software is a Program or set of Progress which helps the Software developers by assisting them in creating , debugging and maintaining other Programs.

Types of Programming Software:

- Visual Studio Code
- Eclipse
- PyCharm
- Node.js etc.....

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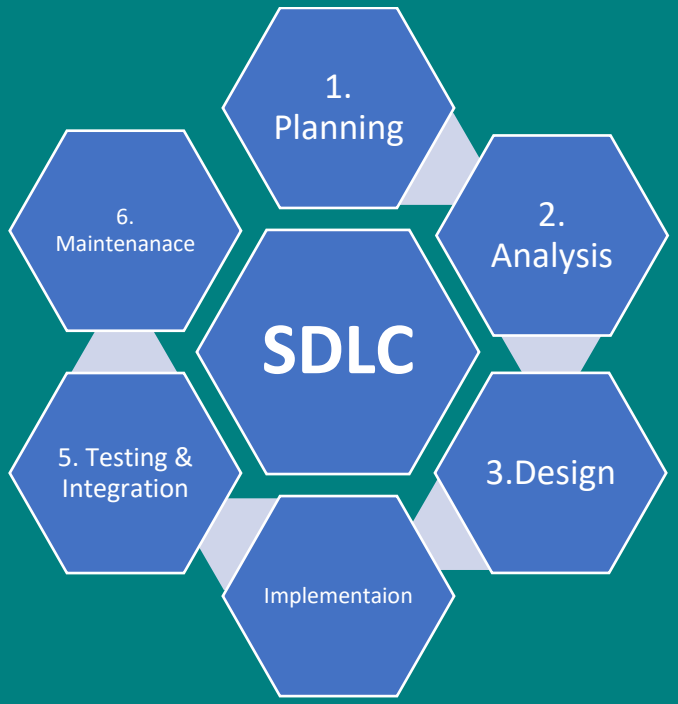
SDLC

- The Software Development Life Cycle means It is a Methodology with defined processes for Creating High-Quality Software.



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PLANNING:

GOAL: Develop a Plan outlining the Project scope, timeline, resources, and budget.

ACTIVITIES: Define Project Goals, Create a Project Schedule, allocate resources, and identify potential risk, Develop a Project Management Plan.

ANALYSIS:

GOAL: Understand and document the Project's Objective user requirements, and Constraints.

ACTIVITIES: Conduct interviews, Surveys, & Meetings with stakeholders to gather information. Analyze and document functional and non-functional requirements.

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DESIGN:

GOAL: Create a blueprint for the System based on the gathered requirements.

ACTIVITIES: Design the architecture of the systems, including high-level and Low-level design Specifications. Define data structures, modules, Interfaces, and algorithms.

IMPLEMENTATION:

GOAL: Transform the design into executable code.

ACTIVITIES: Write, Compile, and test the Code according to the design specification. Developers work on creating the software based on the design documents.

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TESTING & INTEGRATION:

GOAL: Ensure that the software meets the specified requirements and is free of defects.

ACTIVITIES: Conduct various levels, including unit testing, Integration testing, System testing, and acceptance testing.

MAINTENANCE:

GOAL: Address Issue, add new features, and adapt the software to changing requirements.

ACTIVITIES: Monitor the Systems Performance, fix bugs, and make updates as needed. Provide ongoing to users and address maintenance requests.

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What is DFD

DFD stands for Data Flow Diagram. It is a graphical representation of the flow of data within a system, illustrating how inputs are processed and transformed into outputs

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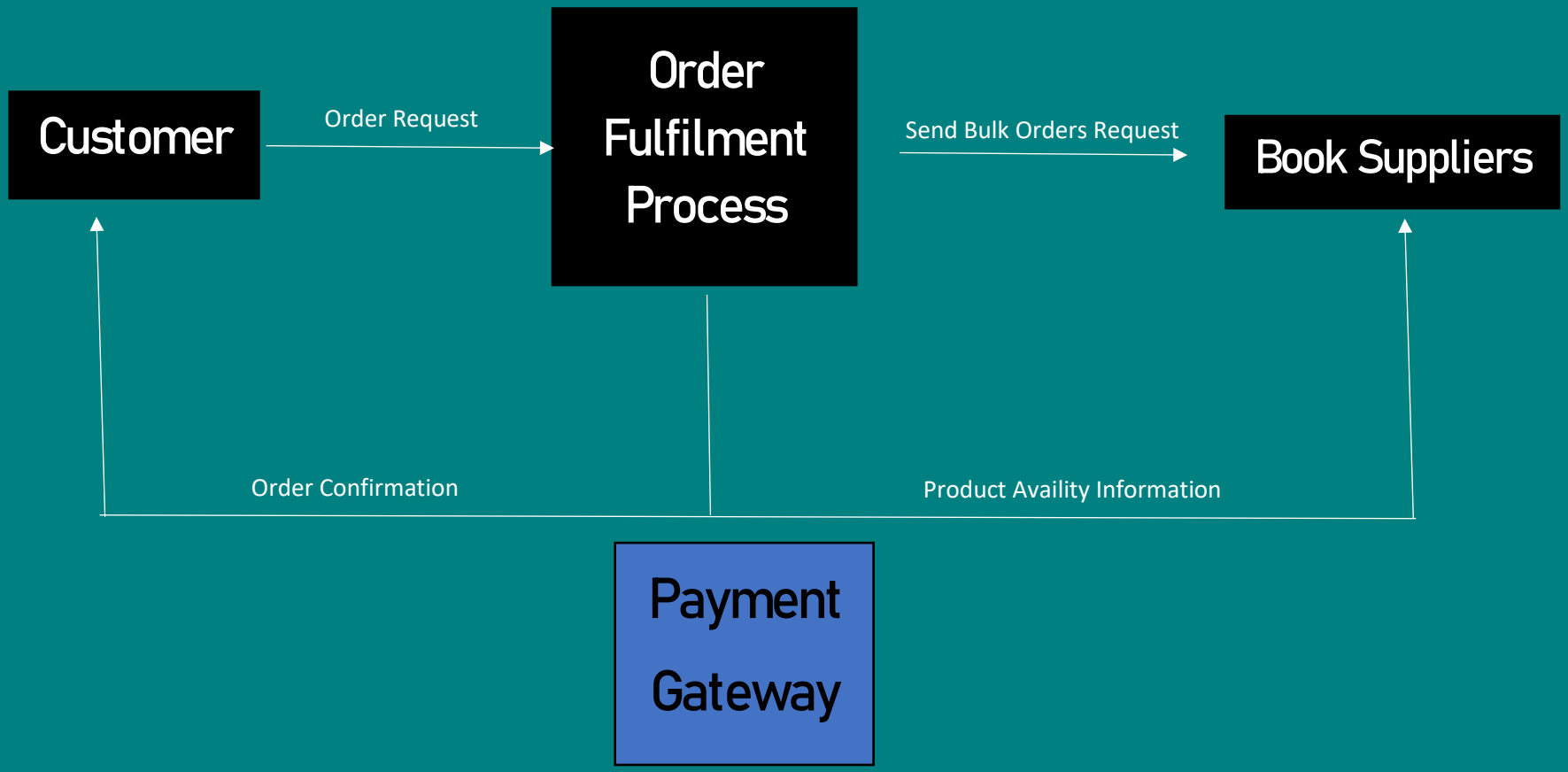
DFD diagram of Flipkart



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What is Flow Chart?

A Flow Chart is a Graphical Representation of a Process or Algorithm, typically consisting of Various Symbols, Shapes, arrows to illustrate the steps involved and the Flow of Information or activities within the Process.

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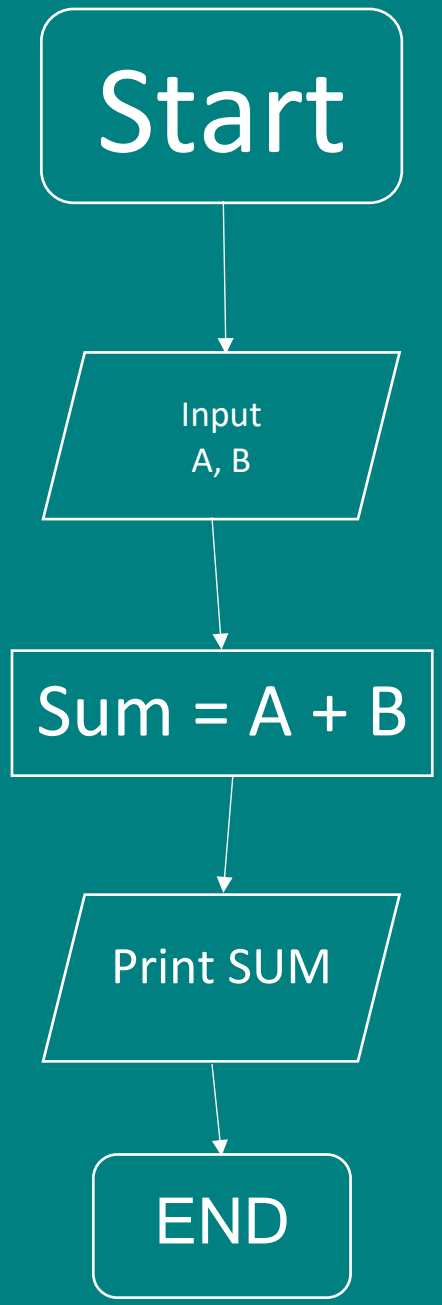
FLOWCHART TO MAKE ADDITION OF TWO NUMBERS



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Use Case Diagram

A USE CASE Diagram is a type of Unified Modeling Language (UML) diagram that represents the Interaction between different actors and a System, showcasing how the System Responds to Various actions or events. It Provides a high-level view of the system's Functionality and the ways in which external entities interact with it.

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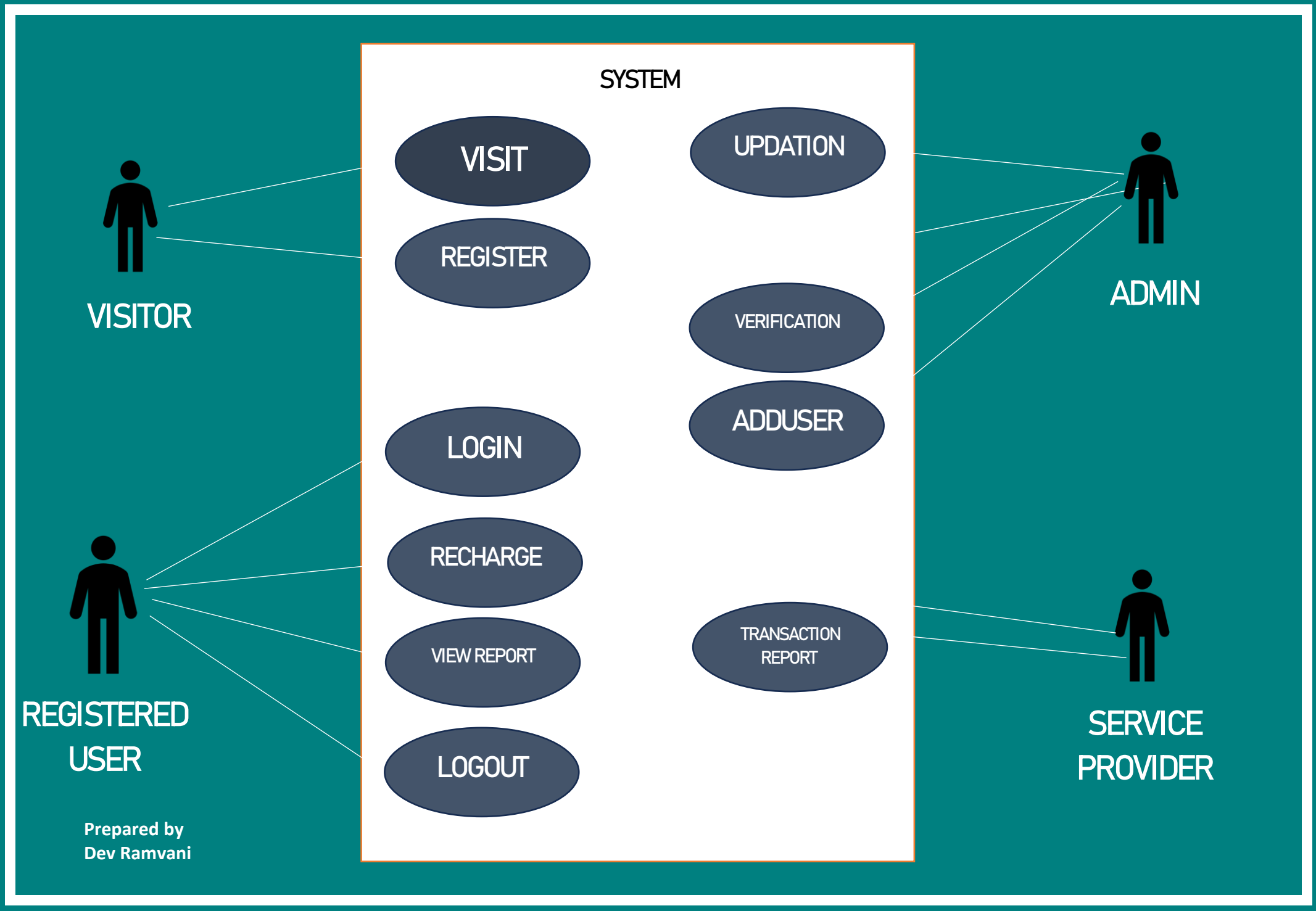
SYSTEM
VISIT
REGISTER
LOGIN
RECHARGE
VIEW REPORT
LOGOUT
UPDATION
VERIFICATION
ADDUSER
TRANSACTION REPORT
VISITOR
REGISTERED USER
ADMIN
SERVICE PROVIDER
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