

Practical 8

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Batch : B3

Aim: To construct a Data Flow Diagram to depict the functional/informational view of system.

Theory:

Data Flow in the Freelancer Bidding System

The data flow diagram (DFD) illustrates the flow of information and interactions between various entities and processes within the Freelancer Bidding System. In this system, clients post projects, and freelancers bid on those projects. Let's break down the data flow depicted in the diagram:

Client Interaction: Clients initiate the process by adding project details, including starting bidding amount, required skillset, and deadline. This data is passed to the "Add Project" process.

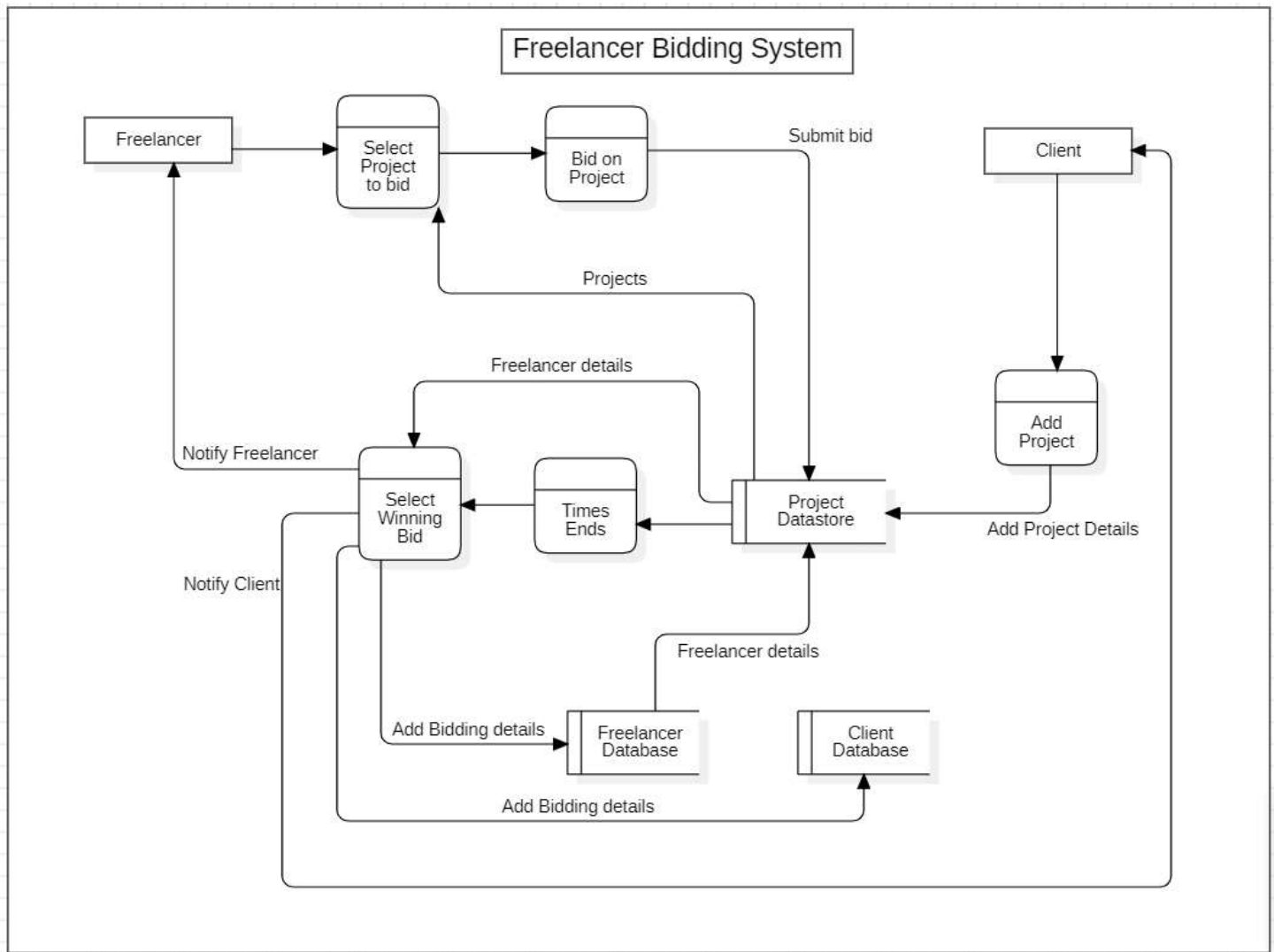
Project Addition: The "Add Project" process receives project details from the client and stores them in the Project Database. This involves the flow of project information from the client to the database.

Freelancer Interaction: Freelancers participate by bidding on projects. They submit their bids, ensuring that the bidding amount is higher than the current bid. This data is passed to the "Bid Project" process.

Bidding Process: The "Bid Project" process receives bids from freelancers and stores them in the Project Database. This involves the flow of bid information from freelancers to the database.

Project Assignment: When the bidding time ends, the system selects the freelancer with the highest bid as the winner of the project. This involves the selection process triggered by the "End Bidding" event.

Winner Notification: The selected freelancer is notified of their successful bid and is assigned the project. This involves the flow of project assignment information from the Project Database to the freelancer.



Data Flow in the Online Skill Test System

The data flow diagram (DFD) illustrates the flow of information and interactions between various entities and processes within the Online Skill Test System. In this system, students take tests to assess their skills in various subjects. Let's break down the data flow depicted in the diagram:

Student Interaction: Students initiate the process by logging into the system. They provide their credentials for authentication. This data is passed to the "Login" process.

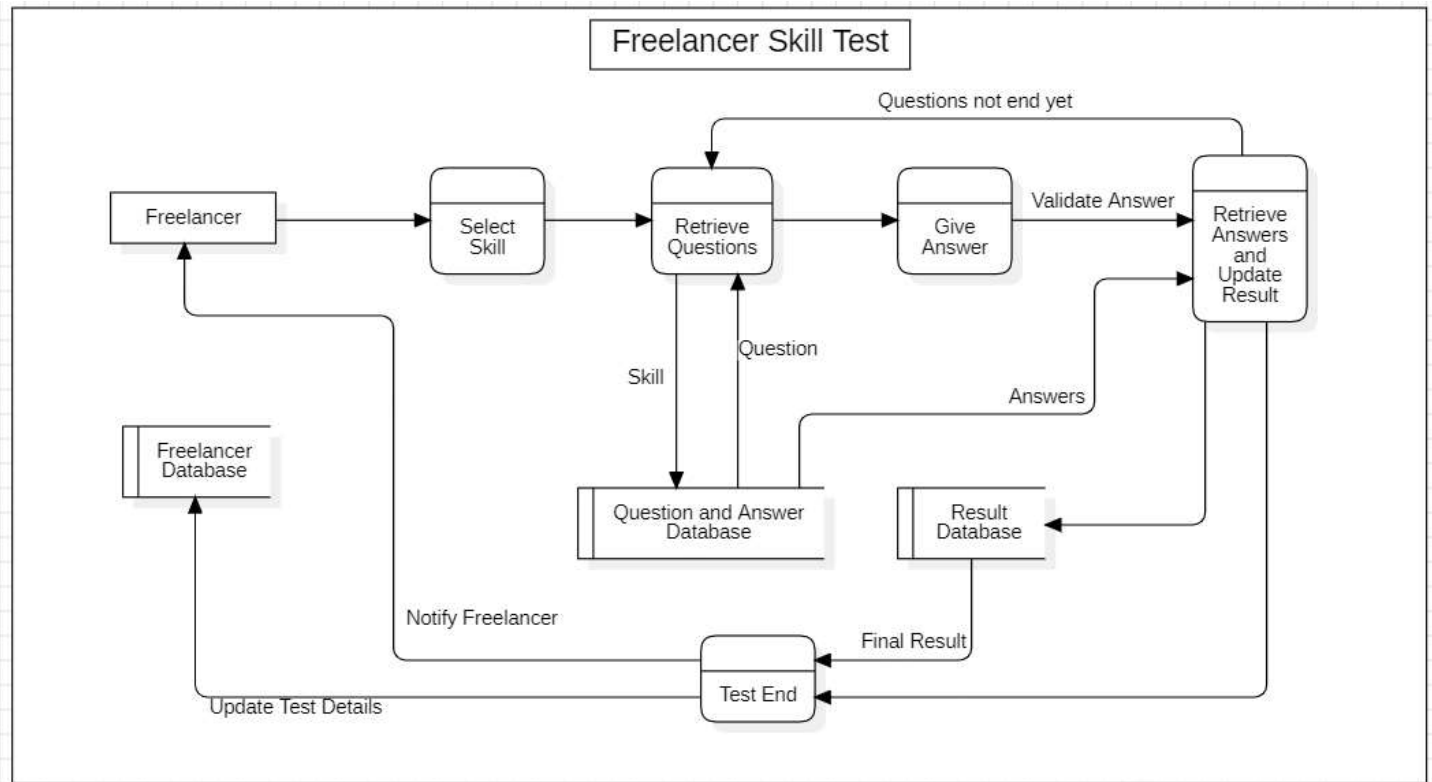
Authentication Process: The "Login" process receives login credentials from students and sends them to the Authentication Module. The Authentication Module verifies the credentials against the information stored in the Database.

Test Selection: After successful authentication, students select the test they want to take. This data is passed to the "Test Selection" process.

Question Retrieval:The "Test Selection" process retrieves questions for the selected test from the Database. This involves the flow of test-related information from the Database to the student.

Answer Submission:Students answer the questions presented to them. Their answers are submitted for evaluation. This data is passed to the "Answer Question" process.

Answer Validation:The "Answer Question" process receives answers from students and validates them against the correct answers stored in the Database. This involves the flow of answer information from students to the Database.



Data Flow in the Payment Process

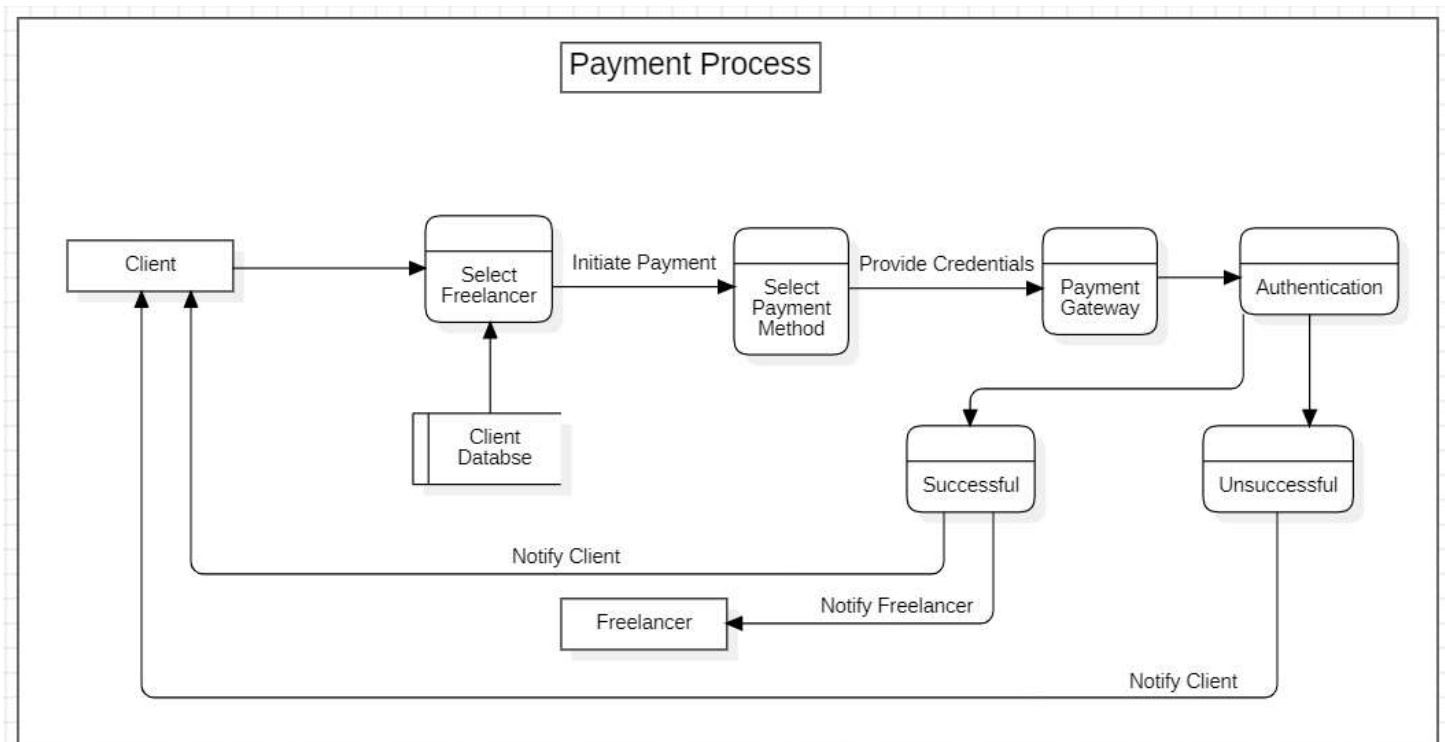
The data flow diagram (DFD) illustrates the flow of information and interactions between various entities and processes within the Payment Process. In this system, clients initiate payments to freelancers after successful project submissions. Let's break down the data flow depicted in the diagram:

Client Interaction:Clients initiate the payment process after the successful submission of a project to the Freelancer. They provide their authentication credentials to authorize the payment. This data is passed to the "Initiate Payment" process.

Authentication Process:The "Initiate Payment" process receives authentication credentials from the client and sends them to the Authentication module for verification. The Authentication module ensures that the provided credentials are valid.

Payment Processing:After successful authentication, the payment process proceeds to the Payment Service. The Payment Service processes the payment transaction, ensuring that funds are transferred securely from the client's account to the freelancer's account.

Funds Transfer:The Payment Service transfers the funds to the freelancer's account upon successful completion of the payment transaction. This involves the flow of payment information from the client's account to the freelancer's account.



Result: DataFlow diagram has been designed and studied.

