

## Practical 7

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**Aim:** To construct Component Diagram and Deployment Diagram to depict the structural view of the system.

### Component Diagram

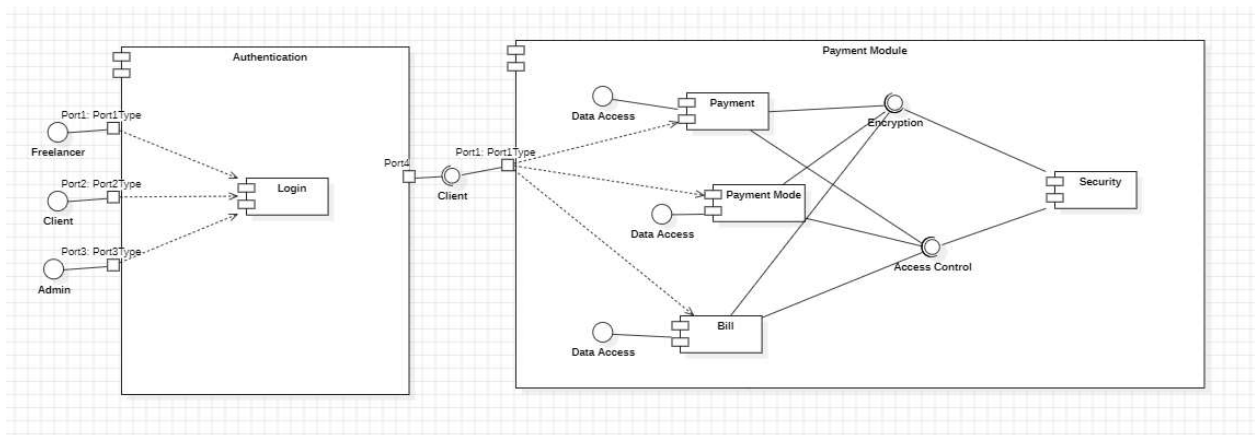
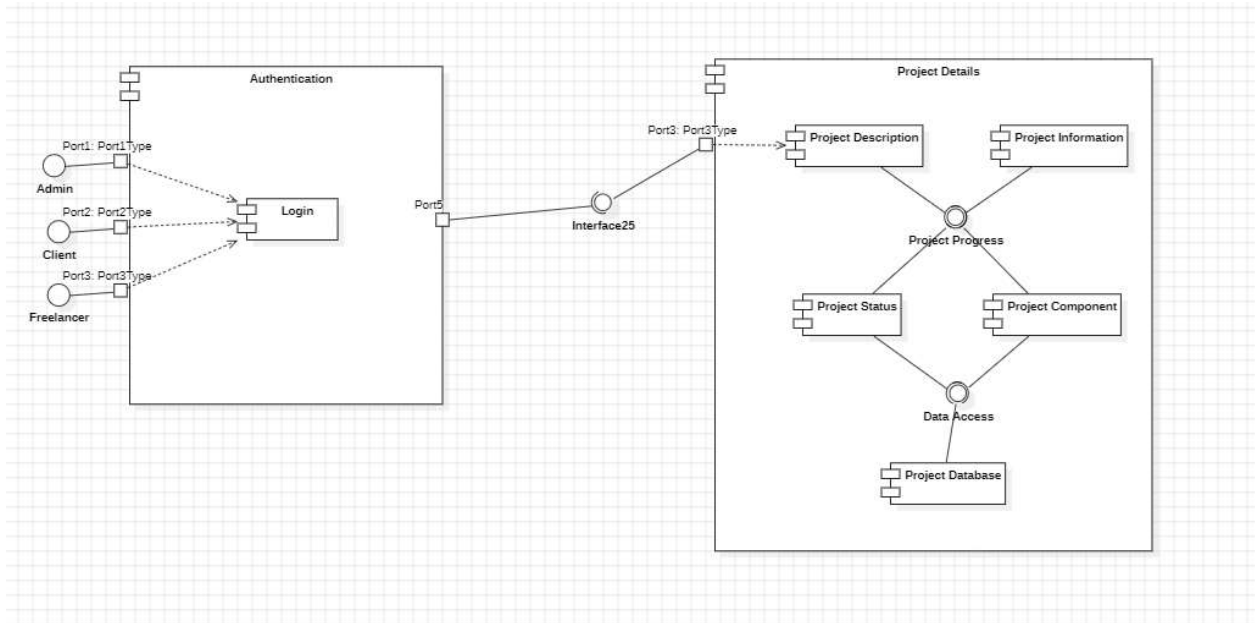
**A .Skill Exam Component diagram:** User Authentication and Account Management: A user (freelancer) logs in to the system using the Authentication component. The system verifies the credentials and grants access. The freelancer can access the Examination component, where they can view information about skills exams and their results.

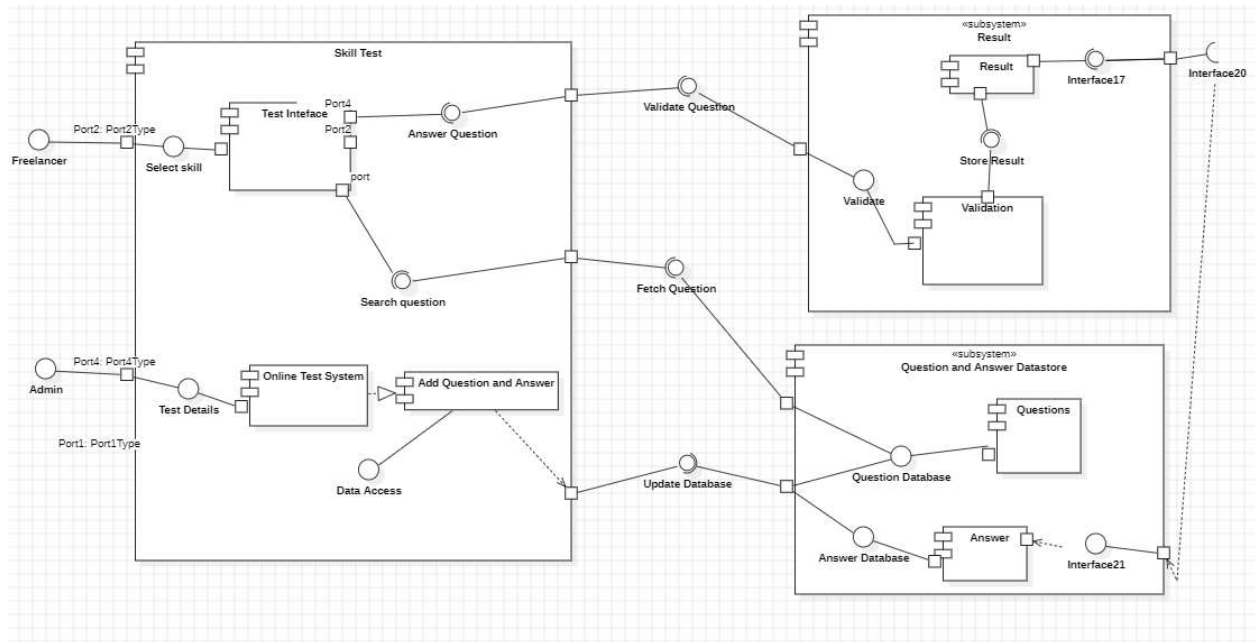
Examination Component: Holds databases for skills exam information and freelancer results.

Admin Interface: Provides access to administrative functionalities such as account management and system database.

**B.Payment Component Diagram:** Payment Processing: Users (freelancers, admins, and clients) log in using the Authentication component. After performing tasks or receiving services, they proceed to make payments. The Payment module facilitates payment processing, containing information about payment databases and available payment options. Payment Module: Manages payment-related functionalities, including payment database interactions and options for processing payments.

**C.Project Component Diagram:** Project Management: Users (freelancers and clients) authenticate themselves via the Authentication component. The system allows access to project details, including project information, status, and details. These details are managed within the Project Details component, which interacts with the project database. Project Details Component: Handles project-related functionalities such as viewing project information, status, and other details stored in the project database.





## Deployment Diagram

### User Authentication:

Users log in to the platform using authentication credentials. User details are verified against the database.

### Project Search:

Users search for projects based on various criteria. The search module fetches relevant projects from the database.

### Bidding on Projects:

Users bid on projects they are interested in. Bids are recorded and associated with the respective projects.

### Database Server:

Stores all the data related to freelancers, clients, jobs, payments, etc.

The database server manages data storage, retrieval, and manipulation.

Usually deployed separately from the web server for scalability and performance reasons.

Represented as a rectangle labeled "Database Server" below the Web Server.

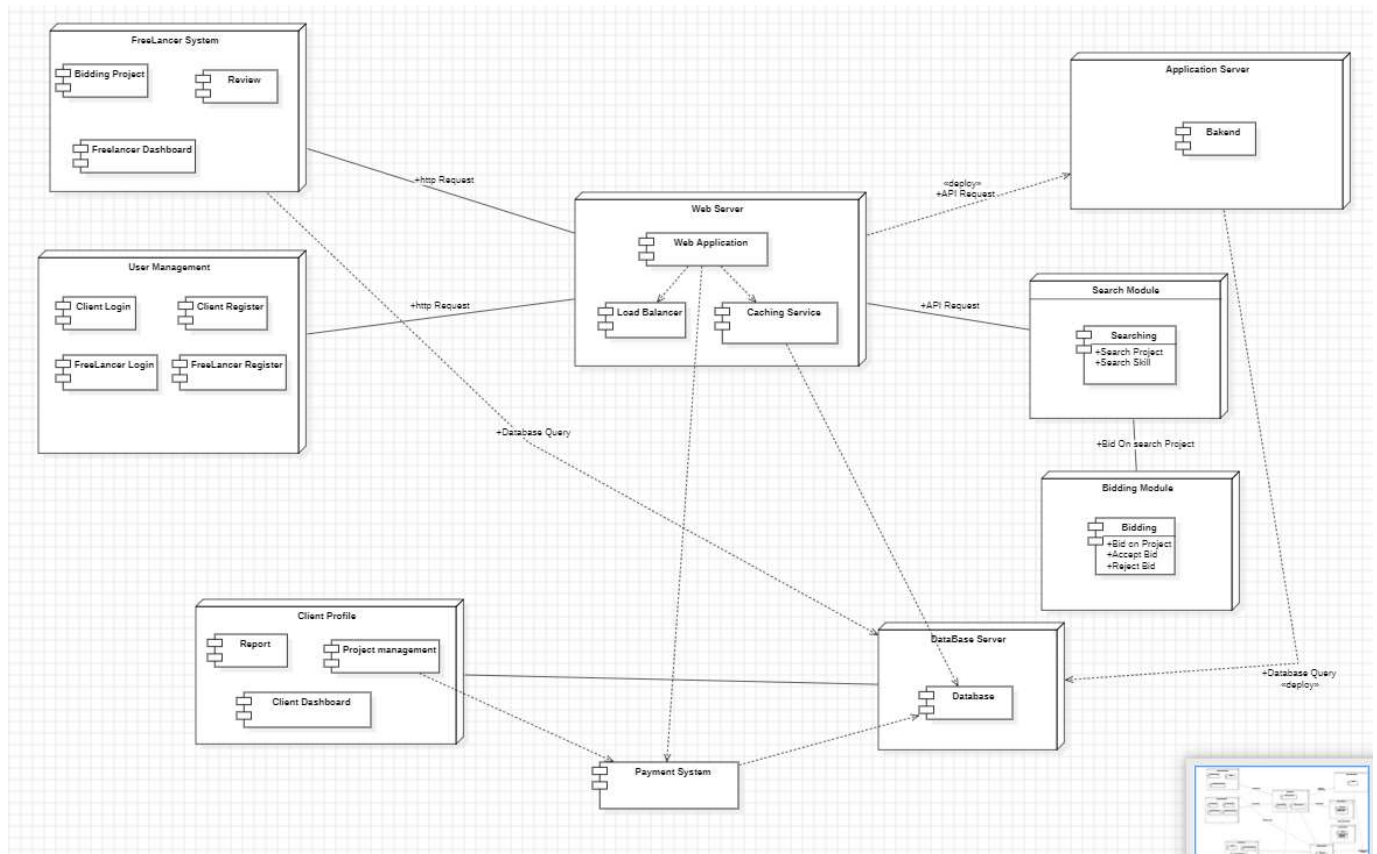
## Web Server:

This is where the web application logic resides. It handles client requests, processes them, interacts with the database, and generates responses.

It hosts the website interface that clients and freelancers interact with.

Typically, the web server is deployed on a cloud platform or a dedicated server.

Represented as a rectangle labeled "Web Server" in the middle of the diagram.



**Result:** Deployment Diagram has been designed and studied

