



PES

UNIVERSITY

PROJECT TITLE :

OLYMPIC

MANAGEMENT DATABASE

DBMS ASSIGNMENT - 1

From Team 10,

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Problem Statement :

To Create a database in accordance with Olympic requirements, which can be deployed in proper management and conduction of Olympics which is a international event.

Problem Description :

Background :

Maintaining a manual database is considerable in local sport activities, but is a nightmare in case of Olympics. That is because, it involves huge amount of data critical to the smooth run and to prevent unethical practices. Improper maintenance may degrade the image of the host countries. Nevertheless, we start with the technical aspects from the next section.

Users of the Database :

- Sport Administrators
- Athletes and Coaches
- Services Administrators
- Analysts

Entities :

- **Country** :- here in this entity we record the fundamental attributes related to all the participating nations in the Olympics. The below table completely describes this entity.

Name	CountryID	NumberOfParticipants	Representative	population
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- **Coach** :- a country has a coach for every sport the country is participating in, hence contains his name and other details.

Name	CoachID	Sport	Gender	PlayerID	PassportNo
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- **OlympicEvent** :- Every Olympic Season is hosted by one of the countries. The entity contains

various attributes like the venue and the season during that time.

CountryName	Season	Year	Venue
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- **Support staff** :- the Olympic hosted by a country is organised by the support staff. this entity contains attributes as shown in the table.

Name	StaffID	Gender	Role
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- **Athlete** :- contains records of individual participants of the sport activities taking place.

Name	PlayerID	Gender	Age	Weight	Height	PassportNo
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- **Sport activity** :- an athlete participates in a sport activity. the entity contains the attributes like the number of participants and the name of the sport activity.

ActivityNo	SportName	NumberOfParticipants
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- **Sport** :- an athlete wins sport. this entity contains attributes of the sport activity in which the athlete has won.

SportName	SportID	TypeOfSport
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- **Schedule** :- Sport activity has a schedule and therefore its entity has various scheduling information.

SportName	SportID	Duration	Timestamp
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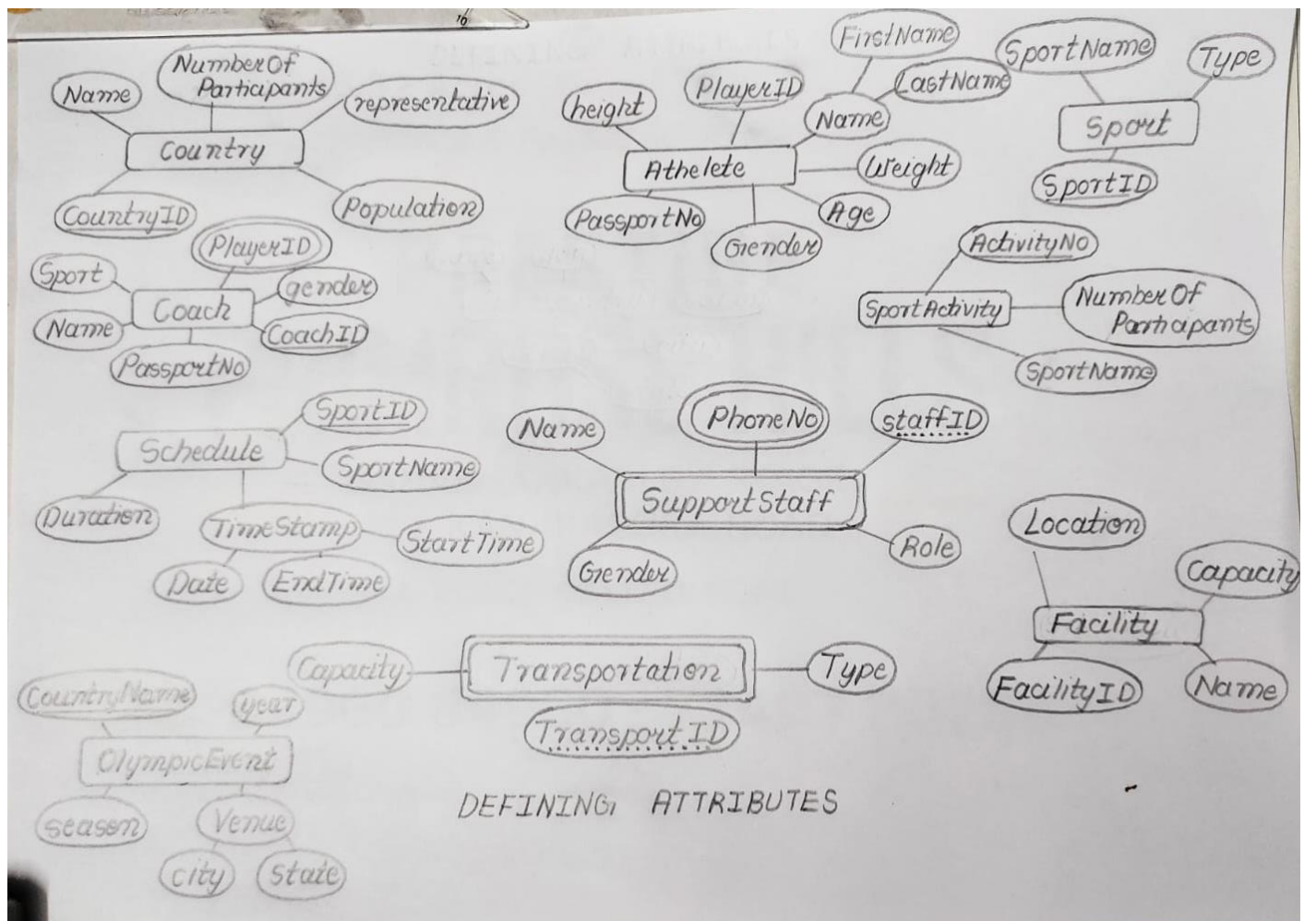
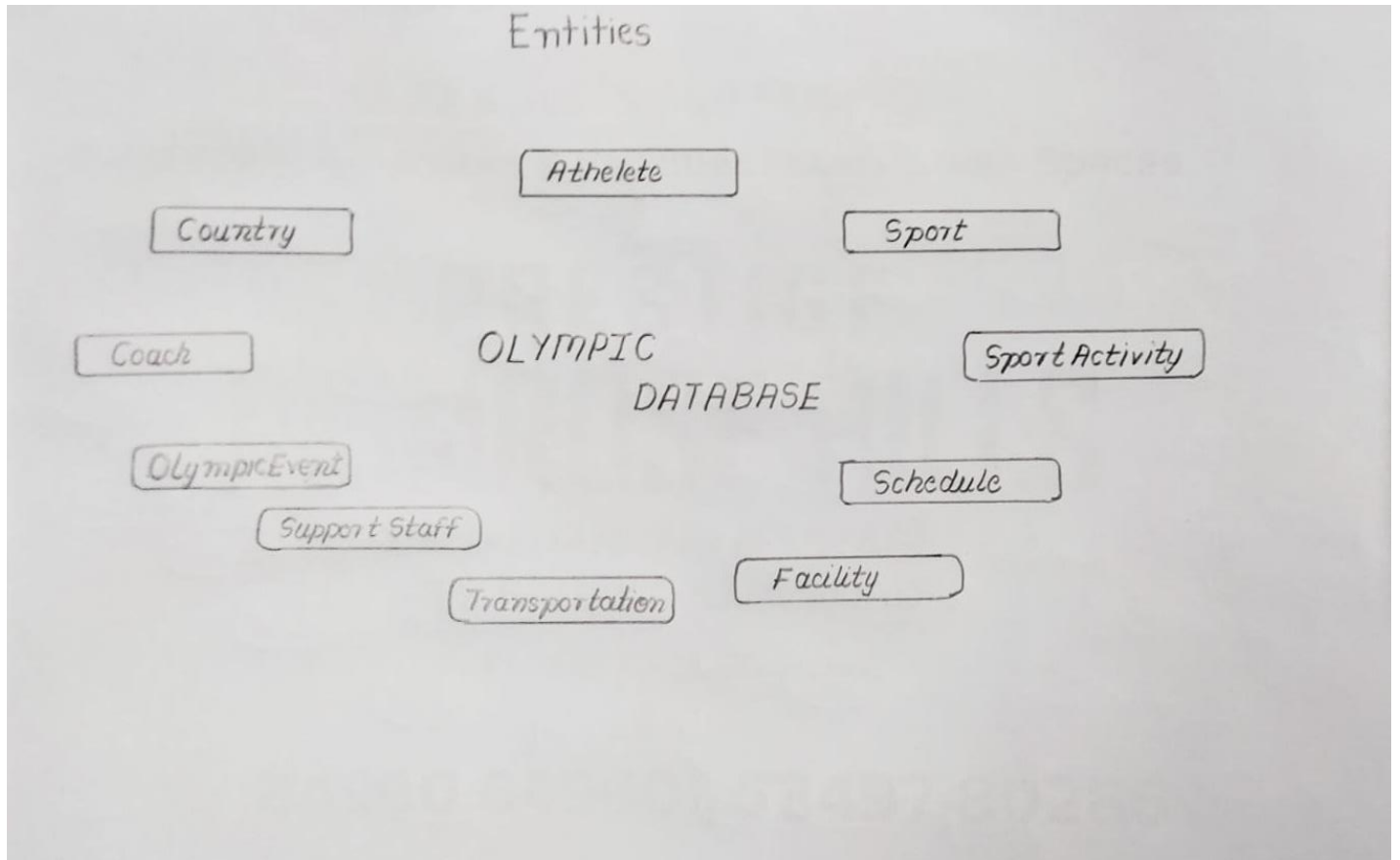
- **Facility** :- a sport activity is held with some necessary facilities.

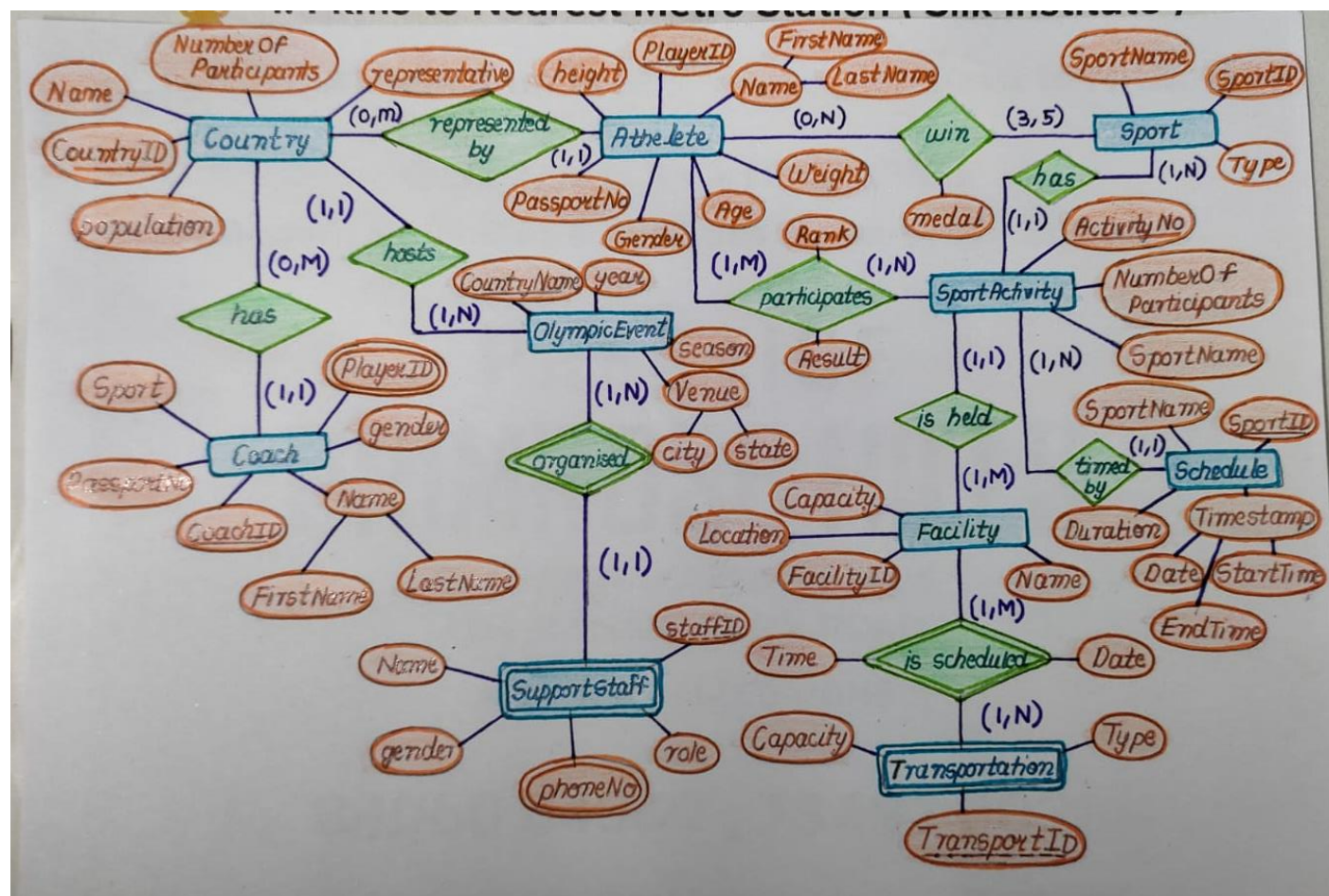
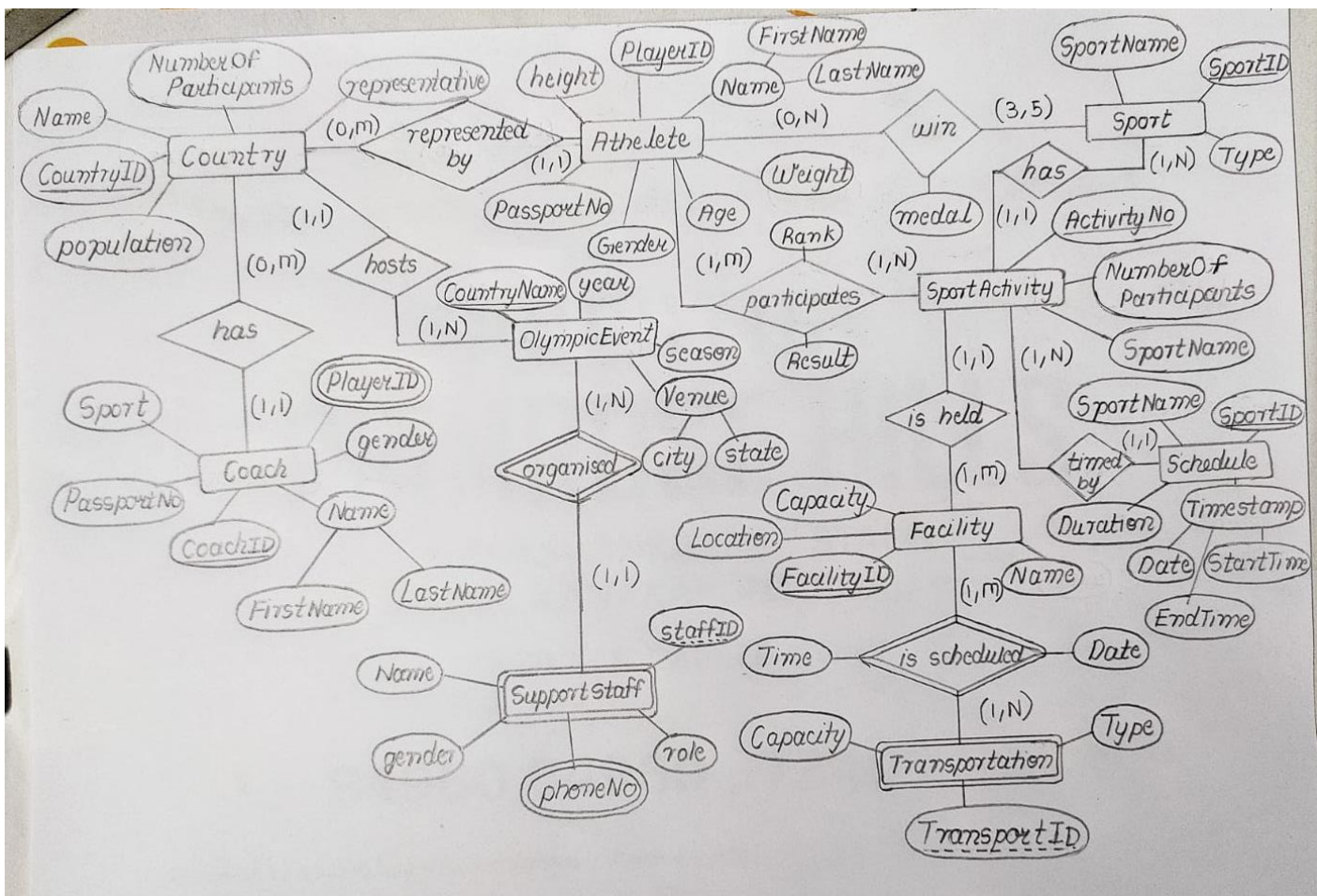
Name	FacilityID	Capacity	Location
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- **Transportation** :- Transportation is a scheduled facility available for athletes. This entity has various attributes as shown in the table.

TransportationID	Type	Capacity
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ER Diagram – Incremental Stages :





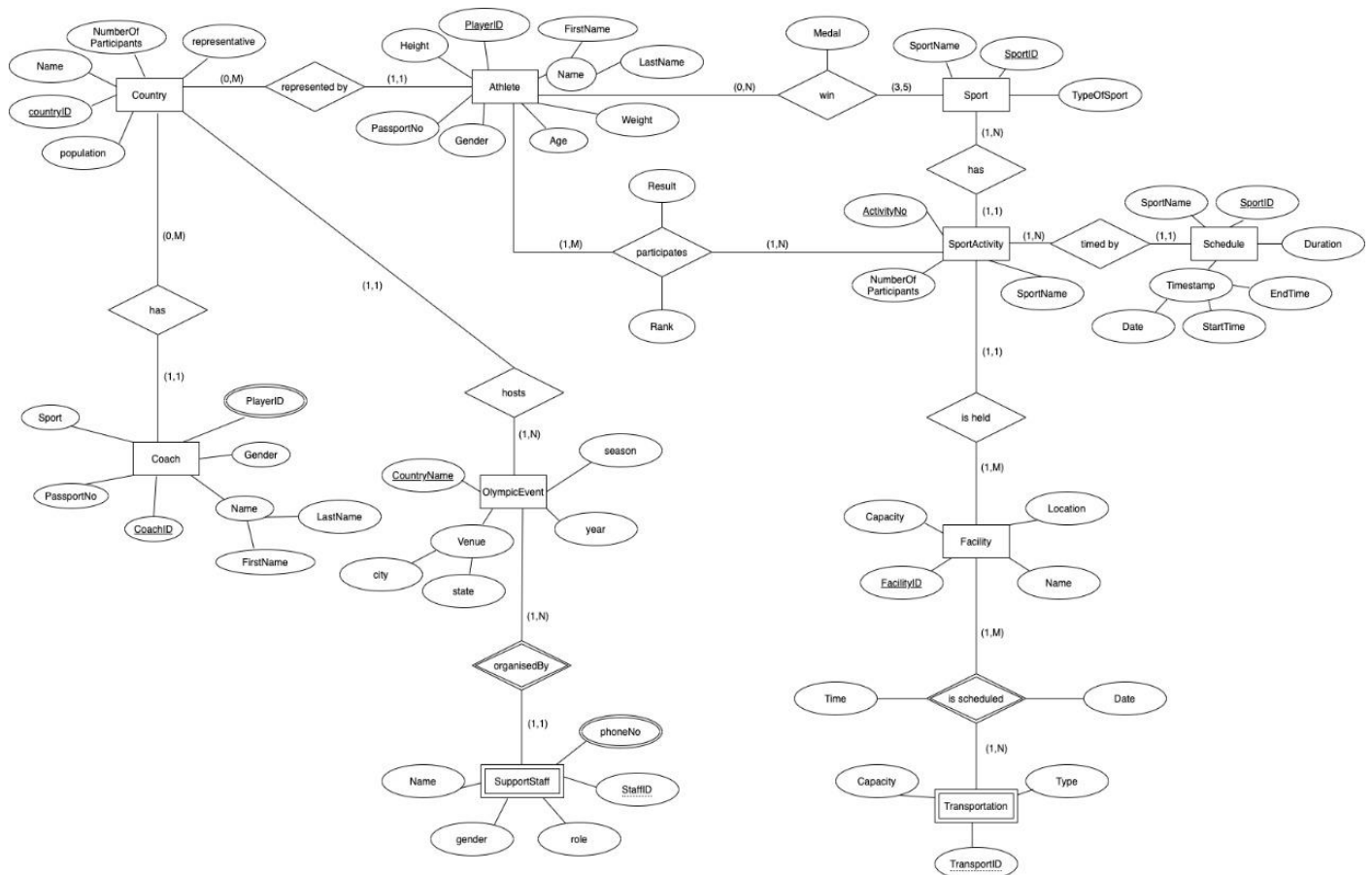
ER Tool Used : diagrams.net

Brief description and Reasons to use :

It provides tight Google Drive integrated diagramming application available. diagrams.net is completely free online diagram editor built around Google Drive(TM), that enables you to create flowcharts, UML, entity relation, network diagrams, mockups and more.

Link:- <https://app.diagrams.net/>

The Final ER Diagram :



Contributions:

Each member has contributed equally to all the tasks of this assignment.

Time spent for various tasks :

ER diagram using Pen and Paper	3 days
Final ER diagram using tool	2 Hrs
Report making	45 min

Thank You for your patience,

Regards,

Team 10