



MIDDLE EAST TECHNICAL UNIVERSITY  
NORTHERN CYPRUS CAMPUS

DEPARTMENT  
OF COMPUTER ENGINEERING

---

**CNG 351**  
**Data Management and File Structures**  
**Assignment 2**

---

**Team Details**

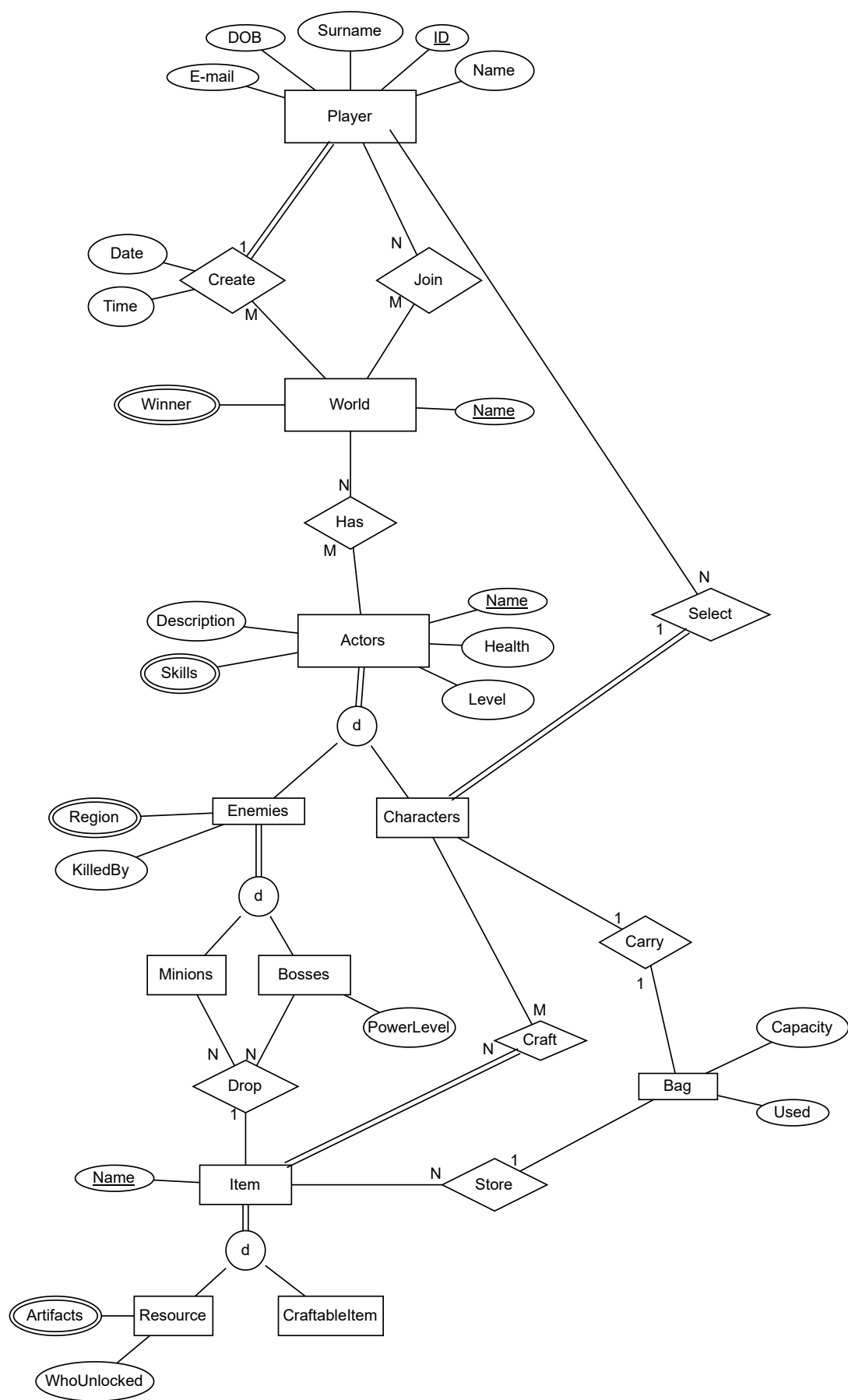
**Member 1**

**Name:** Mert Can  
**Surname:** Bilgin  
**Student ID:** 2453025

**Member 2**

**Name:** Hami  
**Surname:** Karşı  
**Student ID:** 2453322

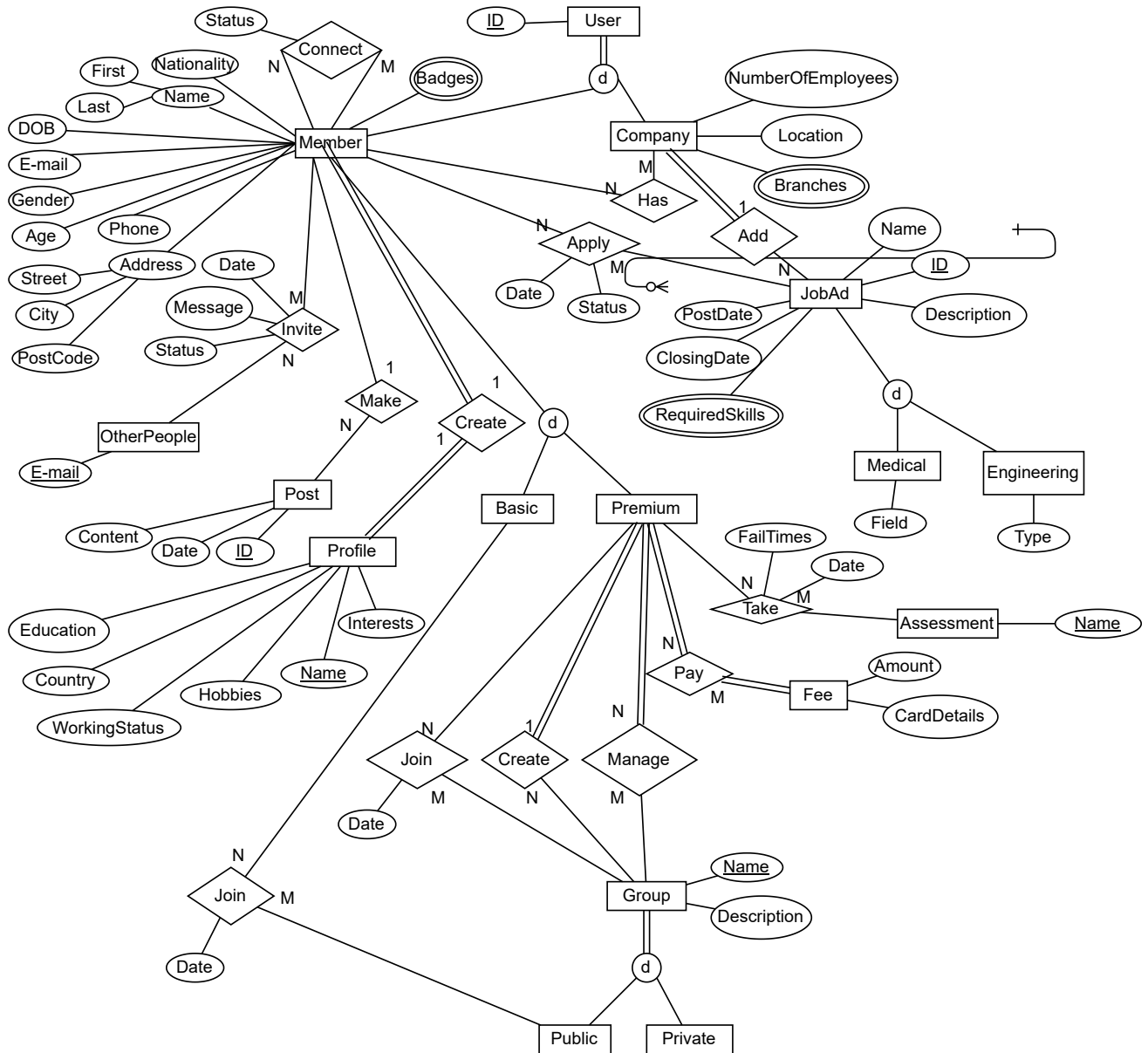
PART 1: Use Case 1 – Survive(25 pts)



**Assumptions:**

- Each player has a unique id.
- The world can be created by one player.
- A player can join many world with the same character.
- Enemies can occur more than one region.
- An actor might have more than one skill.
- A character can be played more than one player.
- A player can craft many items.
- An item can be crafted by many players because it can be crafted again and again.
- A character doesn't have to carry a bag.
- A bag can be carried by one player at a time.
- An item can be carried by one player at a time.
- There might be more than one winner in case of draw.

## Use Case 2 – Find.Job(25 pts)



**Assumptions:**

- More than one fee can be paid.
- A fee can be paid more than members.
- A member can create only one profile.
- Name of the profile is unique.
- A person can be invited by many members.
- A post can be made by one member.
- Post id is unique.
- A group can be created by one premium member.
- Badge name is unique.
- A member can work in many companies.
- A job ad can be added by one company.
- Company has a unique id.
- Each member has a unique id.
- E-mail address of other people is unique.

## PART 2 : Use Case 1 – MENTOR (25 pts)

### Event

<u>ID</u>	Day	Time	Name	OrganizerSSN[FK: Organizer: SSN]	SponsorID[FK: Sponsor: ID]
-----------	-----	------	------	----------------------------------	----------------------------

### Social

ID[FK: Event: ID]	Type	ArtistEmail[FK: Artist: email]
-------------------	------	--------------------------------

### Conference

ID[FK: Event: ID]	Edition
-------------------	---------

### Sport

ID[FK: Event: ID]	Category
-------------------	----------

### Location

<u>Name</u>	ID[FK: Event: ID]
-------------	-------------------

### Organizer

<u>SSN</u>	email	Name	Surname	Address	DOB	Gender
------------	-------	------	---------	---------	-----	--------

### OrganizerPhone

SSN[FK: Organizer: SSN]	PhoneNumber
-------------------------	-------------

### Artist

<u>email</u>	Name	Price
--------------	------	-------

### Organize

EventID[FK: Event: ID]	OrganizerSSN[FK: Organizer: SSN]
------------------------	----------------------------------

### Crew

<u>SSN</u>	Name
------------	------

### Work

EventID[FK: Event: ID]	CrewSSN[FK: Crew: SSN]	Role
------------------------	------------------------	------

### Sponsor

<u>SponID</u>	Name
---------------	------

### Participate

SponID[FK: Sponsor: SponID]	EventID[FK: Event: ID]	fundingAmount
-----------------------------	------------------------	---------------

### Catering

CatID	Address	Name	ContactName	ContactSurname	ContactPhone	FoodFlag	Type	DrinkFlag	Brand
-------	---------	------	-------------	----------------	--------------	----------	------	-----------	-------

### Supply

EventID[FK: Event: ID]	CatID[FK: Catering: CatID]	Cost
------------------------	----------------------------	------

# Use Case 2 – NCCCloud(25 pts)

## Computer

<u>ID</u>	Price	TimeBought	MotherBoard	GPU	CPU	MaintenanceDate	ComputerType	SSD Capacity
-----------	-------	------------	-------------	-----	-----	-----------------	--------------	--------------

## Library

<u>ConnectionToken</u>	Name	userName[FK: UserAccount: Username]
------------------------	------	-------------------------------------

## Epic Games

ConnectionToken[FK: Library: ConnectionToken]
---

## Steam

ConnectionToken[FK: Library: ConnectionToken]	Level
---	-------

## Has

ConnectionToken[FK: Library: ConnectionToken]	ID[FK: Game: ID]
---	------------------

## UserAccount

<u>Username</u>	<u>e-mail</u>	DOB	SubID[FK: Subscription: ID]
-----------------	---------------	-----	-----------------------------

## Play Session

ID[FK: Computer: ID]	username[FK: UserAccount: Username]	GameID[FK: Game: ID]	StartDateTime	EndDateTime
----------------------	-------------------------------------	----------------------	---------------	-------------

## PhoneNumber

username[FK: UserAccount: Username]	<u>PhoneNumber</u>
-------------------------------------	--------------------

## Game

<u>ID</u>	Name	Description
-----------	------	-------------

## FavouriteList

username[FK: UserAccount: Username]	<u>Name</u>	Date	GameID[FK: Game: ID]
-------------------------------------	-------------	------	----------------------

## Subscription

<u>ID</u>	StartDate	EndDate	MonthlyPrice
-----------	-----------	---------	--------------

## Free

ID[FK: Subscription: ID]
--------------------------

## Priority

ID[FK: Subscription: ID]	Loyalty
--------------------------	---------

## Premium

ID[FK: Subscription: ID]	Type
--------------------------	------

## Enables

SubID[FK: Subscription: ID]	ComputerID[FK: Computer: ID]
-----------------------------	------------------------------