Software Requirements Specification

for

Game Zone

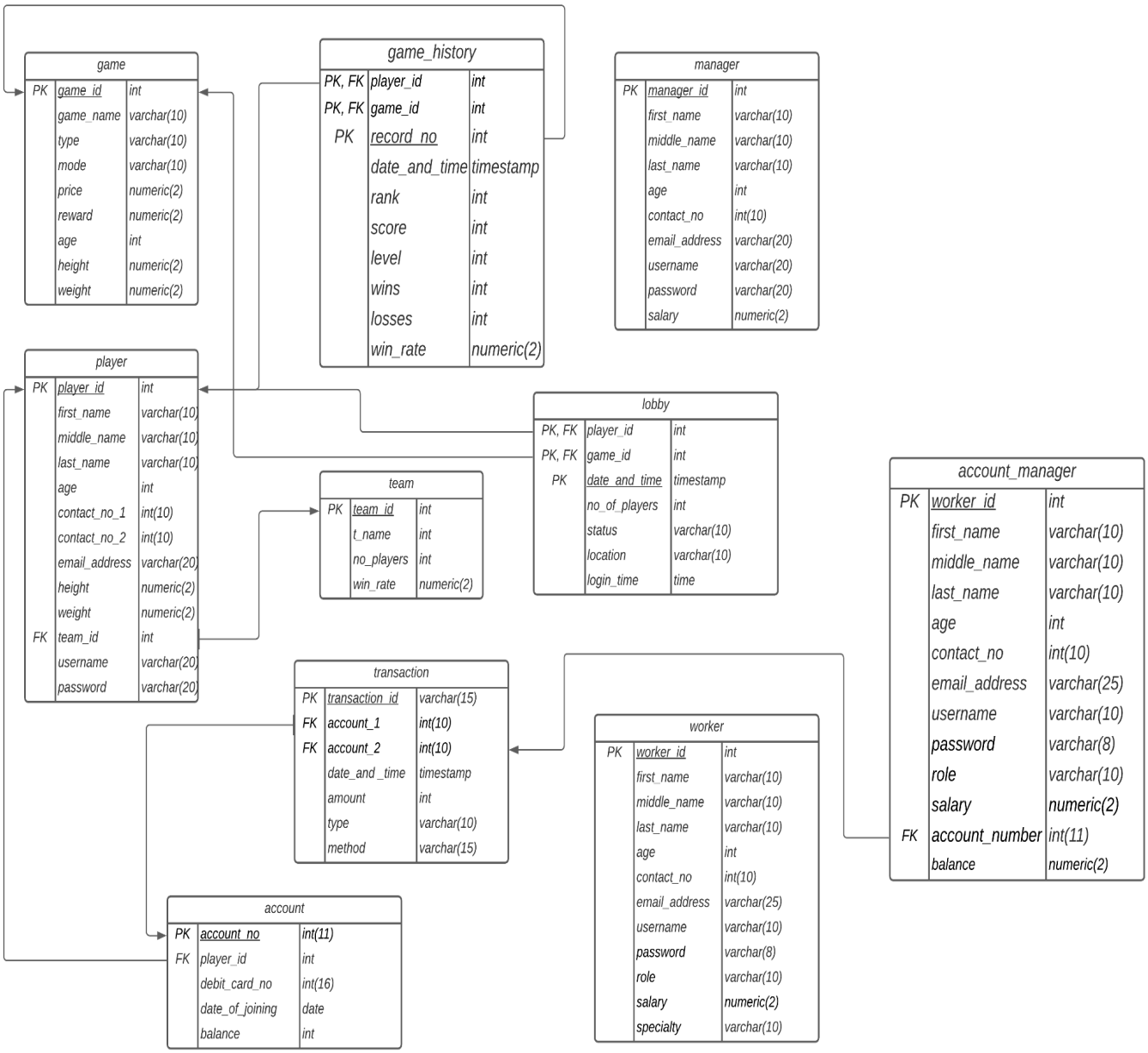
Version 1.0 approved

Prepared by:
Thakkar Amit (201901038)
Makwana Jigar (201901428)
Prajapati Parth (201901429)
Gohil Arpit (201901471)

DAIICT

26/10/2021

Relational Model:



DDL Scripts:

```
CREATE TABLE "game" (
  "game_id" int,
  "game_name" varchar(10),
  "type" varchar(10),
  "mode" varchar(10),
  "price" numeric(2),
  "reward" numeric(2),
  "age" int,
  "height" numeric(2),
  "weight" numeric(2),
  PRIMARY KEY ("game_id")
);

CREATE TABLE "team" (
  "team_id" int,
  "t_name" int,
  "no_players" int,
  "win_rate" numeric(2),
  PRIMARY KEY ("team_id")
);

CREATE TABLE "game_history" (
  "player_id" int,
```

```
  "game_id" int,
  "record_no" int,
  "date_and_time" timestamp,
  "rank" int,
  "score" int,
  "level" int,
  "wins" int,
  "losses" int,
  "win_rate" numeric(2),
  PRIMARY KEY ("player_id", "game_id", "record_no")
);

CREATE TABLE "player" (
  "player_id" int,
  "first_name" varchar(10),
  "middle_name" varchar(10),
  "last_name" varchar(10),
  "age" int,
  "contact_no_1" int(10),
  "contact_no_2" int(10),
  "email_address" varchar(20),
  "height" numeric(2),
  "weight" numeric(2),
  "team_id" int,
  "username" varchar(20),
```

```
  "password" varchar(20),
  PRIMARY KEY ("player_id")
);

CREATE TABLE "manager" (
  "manager_id" int,
  "first_name" varchar(10),
  "middle_name" varchar(10),
  "last_name" varchar(10),
  "age" int,
  "contact_no" int(10),
  "email_address" varchar(20),
  "username" varchar(20),
  "password" varchar(20),
  "salary" numeric(2),
  PRIMARY KEY ("manager_id")
);

CREATE TABLE "account" (
  "account_no" int(11),
  "player_id" int,
  "debit_card_no" int(16),
  "date_of_joining" date,
  "balance " int,
  PRIMARY KEY ("account_no")
```

```
);

CREATE TABLE "lobby" (
  "player_id" int,
  "game_id" int,
  "date_and_time" timestamp,
  "no_of_players" int,
  "status" varchar(10),
  "location" varchar(10),
  "login_time" time,
  PRIMARY KEY ("player_id", "game_id", "date_and_time")
);

CREATE TABLE "worker" (
  "worker_id" int,
  "first_name" varchar(10),
  "middle_name" varchar(10),
  "last_name" varchar(10),
  "age" int,
  "contact_no" int(10),
  "email_address" varchar(25),
  "username" varchar(10),
  "password" varchar(8),
  "role" varchar(10),
  "salary" numeric(2),
```

```
  "specialty" varchar(10),
  PRIMARY KEY ("worker_id")
);

CREATE TABLE "transaction" (
  "transaction_id" varchar(15),
  "account_1" int(10),
  "account_2" int(10),
  "date_and _time" timestamp,
  "amount" int,
  "type" varchar(10),
  "method" varchar(15),
  PRIMARY KEY ("transaction_id")
);

CREATE TABLE "account_manager" (
  "worker_id" int,
  "first_name" varchar(10),
  "middle_name" varchar(10),
  "last_name" varchar(10),
  "age" int,
  "contact_no" int(10),
  "email_address" varchar(25),
  "username" varchar(10),
  "password" varchar(8),
```

```
  "role" varchar(10),
  "salary" numeric(2),
  "account_number" int(11),
  "balance" numeric(2),
  PRIMARY KEY ("worker_id")
);
```