**Project overview**

This is a web based online project. the main purpose of this web site is any user can access this system through web site and they can do their day to day works related to the movie ticket bookings without going to the theaters. and also they can find out information like as a movie available and lists of theaters that movie is going on.

According to the main purpose of this web site, there are three main roles;

1. Administer.
2. Customer.
3. Booking.

**Administer.**

When it comes to the administer,

He can maintain entire database.it means he will be able to maintain all the details of users, theater details and all the details related to the bookings.

LOGIN

ADD MOVIE

**Administer.**

ADD THEATER

BOOKING DETAILS

**Customer.**

Role of the customer is,

As the first step they can register to the system by giving their personal details that the web site ask. after their registration they can login to their account and They can search for a movie that they prefer and check what are the theaters that movie is going on.

REGISTRATION

LOGIN

**Customer.**

VIEW MOVIE

VIEW THEATER

BOOK TICKETS

**Booking.**

At the role of booking,

User will search for a movie and a theater, then they can book their tickets according to the requirements.

DBMS Concepts

1. DATA ABSTRACTION

The main purpose of the database system is to contribute to users an abstraction view of the data. this system is hiding convinced details of how the data is stored an maintained. for the system to be usable, data must be retrieved efficiently.

**ER DIAGRAM of online ticket booking system.**

**A picture containing diagram

Description automatically generated**

link of creately online editor;

<https://app.creately.com/diagram/jelRmaGTj63/edit>

**ER-to-Relational Mapping Algorithm**

* Step 1: Mapping of Regular Entity Types
* Step 2: Mapping of Weak Entity Types
* Step 3: Mapping of Binary 1:1 Relation Types
* Step 4: Mapping of Binary 1:N Relationship Types.
* Step 5: Mapping of Binary M:N Relationship Types.
* Step 6: Mapping of Multivalued attributes.
* Step 7: Mapping of N-ary Relationship Types.

**DATABASE of online ticket booking system.**

Diagram

Description automatically generated

**SQL queries of above database.**

Creating tables and keys:

* Table structure for table `Admin`

CREATE TABLE `Admin` (

`Adminid` varchar(10) NOT NULL,

`name\_ad` varchar(500) NOT NULL,

`email\_ad` varchar(500) NOT NULL,

`password\_ad` varchar(500) NOT NULL,

`confirm\_password\_ad` varchar(500)

NOT NULL

) ENGINE=InnoDB DEFAULT CHARSET=utf8;

* Table structure for table `bookingTable`

CREATE TABLE `bookingTable` (

`bookingID` int(11) NOT NULL,

`movieName` varchar(100) DEFAULT NULL,

`bookingTheatre` varchar(100) NOT NULL,

`bookingType` varchar(100) DEFAULT NULL,

`bookingDate` varchar(50) NOT NULL,

`bookingTime` varchar(50) NOT NULL,

`bookingFName` varchar(100) NOT NULL,

`bookingLName` varchar(100) DEFAULT NULL,

`bookingPNumber` varchar(12) NOT NULL

) ENGINE=InnoDB DEFAULT CHARSET=latin1;

* Table structure for table `customer\_table`

CREATE TABLE `customer\_table` (

`customer\_ID` int(100) NOT NULL,

`name` varchar(500) NOT NULL,

`email` varchar(500) NOT NULL,

`password` varchar(500) NOT NULL,

`confirm\_password` varchar(500) NOT NULL

) ENGINE=InnoDB DEFAULT CHARSET=utf8;

* Table structure for table `Discount`

CREATE TABLE `Discount` (

`Discountid` varchar(10) NOT NULL,

`offerid` varchar(45) NOT NULL,

`m\_name` varchar(45) NOT NULL

) ENGINE=InnoDB DEFAULT CHARSET=utf8;

* Table structure for table `move`

CREATE TABLE `move` (

`movieID` varchar(10) NOT NULL,

`movieImg` longblob NOT NULL,

`movieTitle` varchar(45) NOT NULL,

`movieGenre` varchar(1000) NOT NULL,

`movieDuration` int(11) DEFAULT NULL,

`movieRelDate` date DEFAULT NULL,

`movieDirector` varchar(500) DEFAULT NULL,

`movieActors` varchar(1000) DEFAULT NULL

) ENGINE=InnoDB DEFAULT CHARSET=utf8;

* Table structure for table `Seats`

CREATE TABLE `Seats` (

`seatsid` varchar(10) NOT NULL,

`Seats\_name` varchar(45) NOT NULL,

`seat\_type` varchar(111) NOT NULL,

`No\_of\_Seats` varchar(45) DEFAULT NULL,

`Theatre\_theatreid` varchar(10) NOT NULL

) ENGINE=InnoDB DEFAULT CHARSET=utf8;

* Table structure for table `show`

CREATE TABLE `show` (

`showid` varchar(10) NOT NULL,

`start\_time` varchar(45) NOT NULL,

`end\_time` varchar(45) NOT NULL,

`language` varchar(45) NOT NULL,

`move\_moveid` varchar(10) NOT NULL

) ENGINE=InnoDB DEFAULT CHARSET=utf8;

* Table structure for table `Theatre`

CREATE TABLE `Theatre` (

`theatreid` varchar(10) NOT NULL,

`Theatre\_name` varchar(45) DEFAULT NULL,

`Theatre\_location` varchar(45) DEFAULT NULL,

`Admin\_Adminid` varchar(10) NOT NULL

) ENGINE=InnoDB DEFAULT CHARSET=utf8;

* Table structure for table `Tickets`

CREATE TABLE `Tickets` (

`ticketid` varchar(10) NOT NULL,

`hall\_no` int(11) DEFAULT NULL,

`ticket\_no` varchar(45) DEFAULT NULL,

`price` varchar(45) DEFAULT NULL,

`seat\_no` varchar(45) DEFAULT NULL,

`seat\_type` varchar(500) NOT NULL,

`seat\_name` varchar(500) NOT NULL,

`show\_date` date DEFAULT NULL,

`show\_id` varchar(45) DEFAULT NULL,

`Admin\_Adminid` varchar(10) NOT NULL,

`Discount\_Discountid` varchar(10) NOT NULL,

`show\_showid` varchar(10) NOT NULL,

`Tickets\_no` varchar(45) NOT NULL,

`Customer\_Customerid` varchar(10) NOT NULL

) ENGINE=InnoDB DEFAULT CHARSET=utf8;

**Indexes for dumped tables**

* Indexes for table `Admin`

ALTER TABLE `Admin`

ADD PRIMARY KEY (`Adminid`);

* Indexes for table `bookingTable`

ALTER TABLE `bookingTable`

ADD PRIMARY KEY (`bookingID`),

ADD UNIQUE KEY `bookingID` (`bookingID`),

ADD KEY `bookingID\_2` (`bookingID`),

ADD KEY `bookingID\_3` (`bookingID`),

ADD KEY `bookingID\_4` (`bookingID`);

* Indexes for table `customer\_table`

ALTER TABLE `customer\_table`

ADD PRIMARY KEY (`customer\_ID`);

* Indexes for table `Discount`

ALTER TABLE `Discount`

ADD PRIMARY KEY (`Discountid`);

* Indexes for table `move`

ALTER TABLE `move`

ADD PRIMARY KEY (`movieID`);

* Indexes for table `Seats`

ALTER TABLE `Seats`

ADD PRIMARY KEY (`seatsid`,`Theatre\_theatreid`),

ADD KEY `fk\_Seats\_Theatre\_idx` (`Theatre\_theatreid`);

* Indexes for table `show`

ALTER TABLE `show`

ADD PRIMARY KEY (`showid`,`move\_moveid`),

ADD KEY `fk\_show\_move1\_idx` (`move\_moveid`);

* Indexes for table `Theatre`

ALTER TABLE `Theatre`

ADD PRIMARY KEY (`theatreid`,`Admin\_Adminid`),

ADD KEY `fk\_Theatre\_Admin1\_idx` (`Admin\_Adminid`);

* Indexes for table `Tickets`

ALTER TABLE `Tickets`

ADD PRIMARY KEY (`ticketid`,`Admin\_Adminid`,`Discount\_Discountid`,`show\_showid`,`Customer\_Customerid`),

ADD KEY `fk\_Tickets\_Admin1\_idx` (`Admin\_Adminid`),

ADD KEY `fk\_Tickets\_Discount1\_idx` (`Discount\_Discountid`),

ADD KEY `fk\_Tickets\_show1\_idx` (`show\_showid`),

ADD KEY `fk\_Tickets\_Customer1\_idx` (`Customer\_Customerid`);

**AUTO\_INCREMENT for dumped tables**

* AUTO\_INCREMENT for table `bookingTable`

ALTER TABLE `bookingTable`

MODIFY `bookingID` int(11) NOT NULL AUTO\_INCREMENT;

* AUTO\_INCREMENT for table `customer\_table`

ALTER TABLE `customer\_table`

MODIFY `customer\_ID` int(100) NOT NULL AUTO\_INCREMENT, AUTO\_INCREMENT=26;

**Constraints for dumped tables**

* Constraints for table `Seats`

ALTER TABLE `Seats`

ADD CONSTRAINT `fk\_Seats\_Theatre` FOREIGN KEY (`Theatre\_theatreid`) REFERENCES `Theatre` (`theatreid`);

* Constraints for table `show`

ALTER TABLE `show`

ADD CONSTRAINT `fk\_show\_move1` FOREIGN KEY (`move\_moveid`) REFERENCES `move` (`movieID`);

* Constraints for table `Theatre`

ALTER TABLE `Theatre`

ADD CONSTRAINT `fk\_Theatre\_Admin1` FOREIGN KEY (`Admin\_Adminid`) REFERENCES `Admin` (`Adminid`);

* Constraints for table `Tickets`

ALTER TABLE `Tickets`

ADD CONSTRAINT `fk\_Tickets\_Admin1` FOREIGN KEY (`Admin\_Adminid`) REFERENCES `Admin` (`Adminid`),

ADD CONSTRAINT `fk\_Tickets\_Discount1` FOREIGN KEY (`Discount\_Discountid`) REFERENCES `Discount` (`Discountid`),

ADD CONSTRAINT `fk\_Tickets\_show1` FOREIGN KEY (`show\_showid`) REFERENCES `show` (`showid`);