

CPSC 471 Project

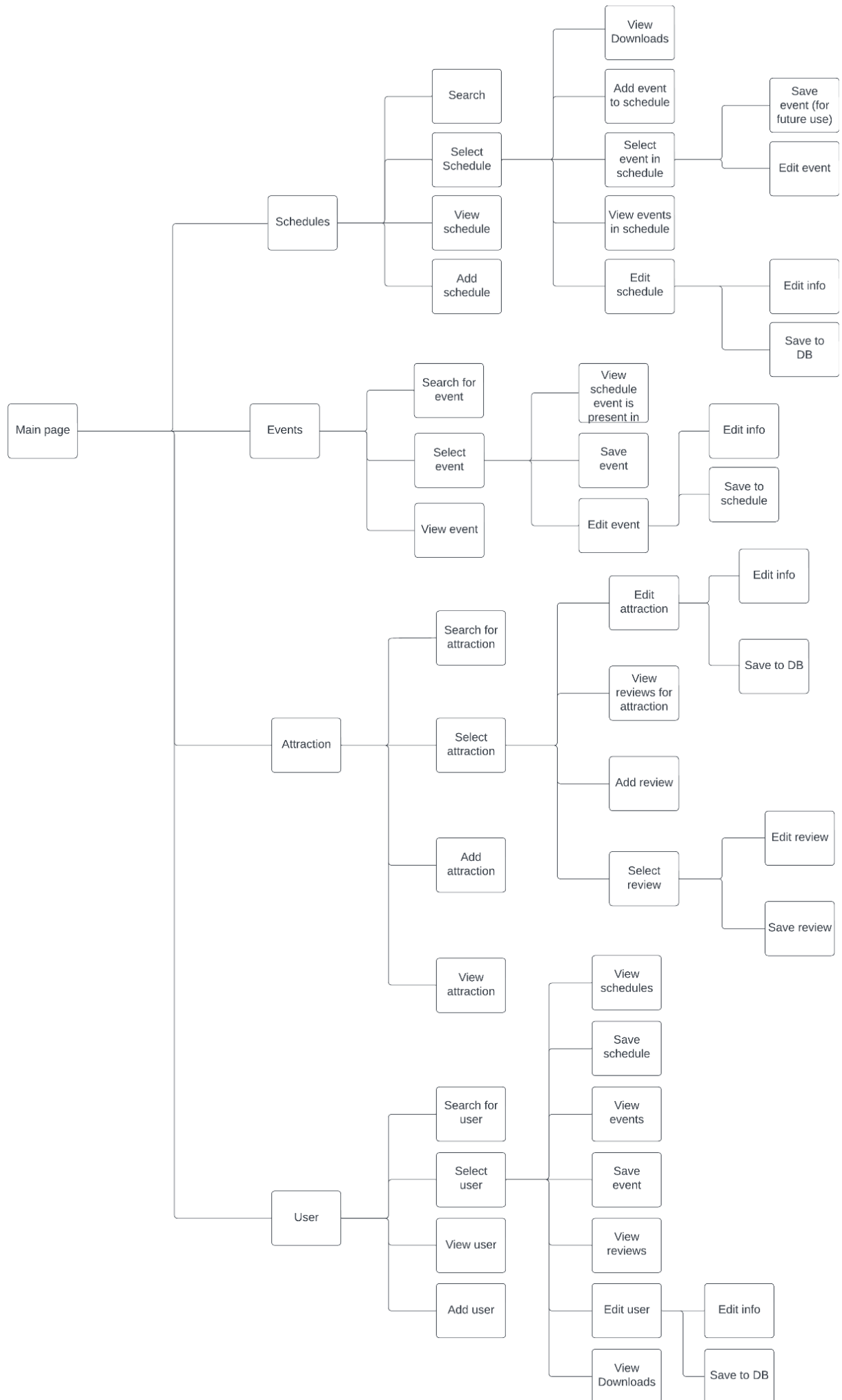
DFD/HIPO Diagrams

Group G-9

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Function: search/view schedule

input @CreatorID @ScheduleName, @StartDate, @Enddate

Outputs CreatorID, ScheduleID, StartDate, EndDate, ScheduleName

Pseudocode:

Connect to DB

Query:

```
SELECT s.CreatorID, s.Schedule_ID, s.StartDate, s.EndDate, s.ScheduleName  
FROM Schedule S
```

```
WHERE s.CreatorID = @CreatorID AND s.ScheduleName = @ScheduleName  
AND s.StartDate = @StartDate AND s.EndDate = @EndDate
```

parse query

execute query

close connection to DB

Function: view events in schedule

input @ScheduleID

Outputs: table of events

pseudocode:

Connect to DB

query:

```
CREATE VIEW [Events in Schedule] AS
```

```
SELECT *
```

```
FROM Event
```

```
WHERE ScheduleID = @ScheduleID
```

parse query

execute query

close connection to database

Function: edit event in schedule

Input @Date, @StartTime, @EndTime, @Description, @Cost, @Name,
@Address

Outputs: None

pseudocode

Connect to db

Query

UPDATE Event

SET "attribute"

WHERE Date = @Date, StartTime = @StartTime, EndTime = @EndTime,

Description = @Description, Cost = @Cost, Name = @Name, Address =

@Address

Parse query

Execute query

Close connection to DB

Function: add schedule

input @CreatorID, @ScheduleID, @ScheduleName, @StartDate, @EndDate

outputs: none

Pseudocode

Connect to DB

Query

INSERT INTO Schedule (@CreatorID, @ScheduleID, @ScheduleName,

@StartDate, @EndDate)

Parse query

Execute query

Close connection to DB

Function: Add event to schedule

input @CreatorID, @Date, @StartTime, @EndTime, @Description, @Cost,

@Name, @Address

Outputs: None

Pseudocode:

Connect to db

query = INSERT INTO Event (@CreatorID, currentScheduleID, @Date,

@StartTime, @EndTime, @Description, @Cost, @Name, @Address)

parse query

execute query

close connection to database

Function: View downloads of schedule

Input: @ScheduleId

Output: UserID, ScheduleID, Description

Pseudocode

Connect to db

Query:

SELECT *

FROM Downloads

WHERE ID = @ScheduleID

Parse query

Execute query

Close connection to database

Function: Edit Schedule

Input: @CreatorID, @ScheduleID, @ScheduleName, @StartDate, @EndDate

Output: None

Pseudocode

Connect to db

Query:

SET "attribute"

WHERE CreatorID = @CreatorID, ScheduleID = @ScheduleID, ScheduleName = @ScheduleName, StartDate = @StartDate, EndDate = @EndDate

Parse query

Execute query

Close connection to DB

Function: search/view event

inputs: @CreatorID, @ScheduleID, @Date, @StartTime, @EndTime,

@Description, @Cost, @Name, @Address

output: CreatorID, ScheduleID, Date, StartTime, EndTime, Description, Cost, Name, Address

Pseudocode:

Connect to DB

Query:

SELECT *

FROM Event

WHERE CreatorID = @CreatorID AND ScheduleID = @ScheduleID AND Date = @Date AND StartTime = @StartTime AND EndTime = @EndTime AND Description = @Description AND Cost = @Cost AND Name = @Name AND Address = @Address

parse query
execute query
close connection to database

Function: View schedule event is present in

Input @ScheduleID (is current scheduleID of event)

Outputs: table of events in schedule

pseudocode:
connect to db

Query:
CREATE VIEW [Events in Schedule] AS
SELECT *
FROM Event
Where ScheduleID = @ScheduleID

parse query
execute query
close connection to db

Function: Edit event

Inputs: @CreatorID, @ScheduleID, @Date, @StartTime, @EndTime, @Description, @Cost, @Name, @Address

Outputs: none

Pseudocode:
Connect to db

Query:
UPDATE event
SET "attribute"
WHERE CreatorID = @CreatorID, ScheduleID = @ScheduleID, Date = @Date, StartTime = @StartTime, EndTime = @EndTime, Description = @Description, Cost = @Cost, Name = @Name, Address = @Address

Parse Query

Execute Query
Close connection to DB

Function: Search/view Attraction

Inputs: @City_ID, @Address, @Name, @Cost, @Description, @ApprovedFlag,
@Menu, @TypeOfAttraction, @Activity
outputs: none

pseudocode:
Connect to db

Query:
SELECT *
FROM Attraction
WHERE City_ID = @City_ID, Address = @Address, Name = @Name, Cost =
@Cost, Description = @Description, ApprovedFlag = @ApprovedFlag, Menu =
@Menu, TypeOfAttraction = @TypeOfAttraction, Activity = @Activity

Parse query
Execute query
Close connection to database

Function: Add attraction

Inputs: @City_ID, @Address, @Name, @Cost, @Description, @ApprovedFlag,
@Menu, @TypeOfAttraction, @Activity
outputs: none

pseudocode:
Connect to DB

Query:
INSERT INTO Attraction(@City_ID, @Address, @Name, @Cost, @Description,
@ApprovedFlag, @Menu, @TypeOfAttraction, @Activity)

parse query
execute query
close connection to db

Edit Attraction

Inputs: @City_ID, @Address, @Name, @Cost, @Description, @ApprovedFlag,
@Menu, @TypeOfAttraction, @Activity
outputs: none

pseudocode:
Connect to DB

Query:
UPDATE Attraction
SET "attribute"
WHERE

parse query
execute query
close connection to db

Function: View attraction reviews

Input: @Address (address of current selected attraction)

Output: CreatorID, Comment, Stars, ApprovedFlag, AttractionAddress

Pseudocode:
Connect to DB

Query:
SELECT *
FROM Review
WHERE AttractionAddress = @Address

Parse query
Execute query
Close connection to DB

FUNCTION: Add attraction review

Input: @CreatorID, @Comment, @Stars, @ApprovedFlag, @AttractionAddress

No outputs

Pseudocode:
Connect to DB

Query:
INSERT INTO Review(@CreatorID, @Comment, @Stars, @ApprovedFlag,
@AttractionAddress)

Parse query
Execute query

Close connection to DB

Function: Edit review

Inputs: @Creator_ID, @Comment, @Stars, @ApprovedFlag,
@AttractionAddress

Output: None

Pseudocode:

Connect to DB

Query:

UPDATE Review

SET "attribute"

WHERE Creator_ID = @Creator_ID, Comment = @Comment, Stars = @Stars,
ApprovedFlag = @ApprovedFlag

Parse query

Execute query

Close connection to DB

Function: Search/View User

Inputs: @ID

outputs: none

pseudocode:

Connect to DB

Query:

SELECT *

FROM User

WHERE ID = @ID

parse query

execute query

close connection to db

Function: View User Schedules

Inputs: @ID

outputs: none

pseudocode:

Connect to DB

Query:

```
SELECT *  
FROM Schedule  
WHERE CreatorID = @ID
```

parse query
execute query
close connection to db

Function: View User Reviews

Inputs: @ID (ID is key; each user has a unique key)
outputs: none

pseudocode:
Connect to DB

Query:

```
SELECT *  
FROM Review  
WHERE AuthorID = @ID
```

parse query
execute query
close connection to db

Function: View User Events

Inputs: @ID (ID is key; each user has a unique key)
outputs: none

pseudocode:
Connect to DB

Query:

```
SELECT *  
FROM Event  
WHERE CreatorID = @ID
```

parse query
execute query
close connection to db

Function: Edit User

Inputs: @ID (ID is key; each user has a unique key)

outputs: none

pseudocode:

Connect to DB

Query:

UPDATE User

SET "attribute"

WHERE ID = @ID

parse query

execute query

close connection to db

Function: Add User

Inputs: @ID, @Name, @Phone_No, @Email, @AdminFlag

Outputs: none

Pseudocode

Connect to DB

Query:

INSERT INTO USER(@ID, @Name, @Phone_No, @Email, @AdminFlag)

parse query

execute query

close connection to db

Function: View Downloads from user

Inputs: @ID (is from ID of selected user)

outputs: none

pseudocode:

Connect to DB

Query:

SELECT *

FROM Download

WHERE UserID = @ID

parse query
execute query
close connection to db

DFD Diagram

