**SOFTWARE DESIGN DOCUMENT**

Conference Management and Reservation Online Portal

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# Introduction

## Purpose

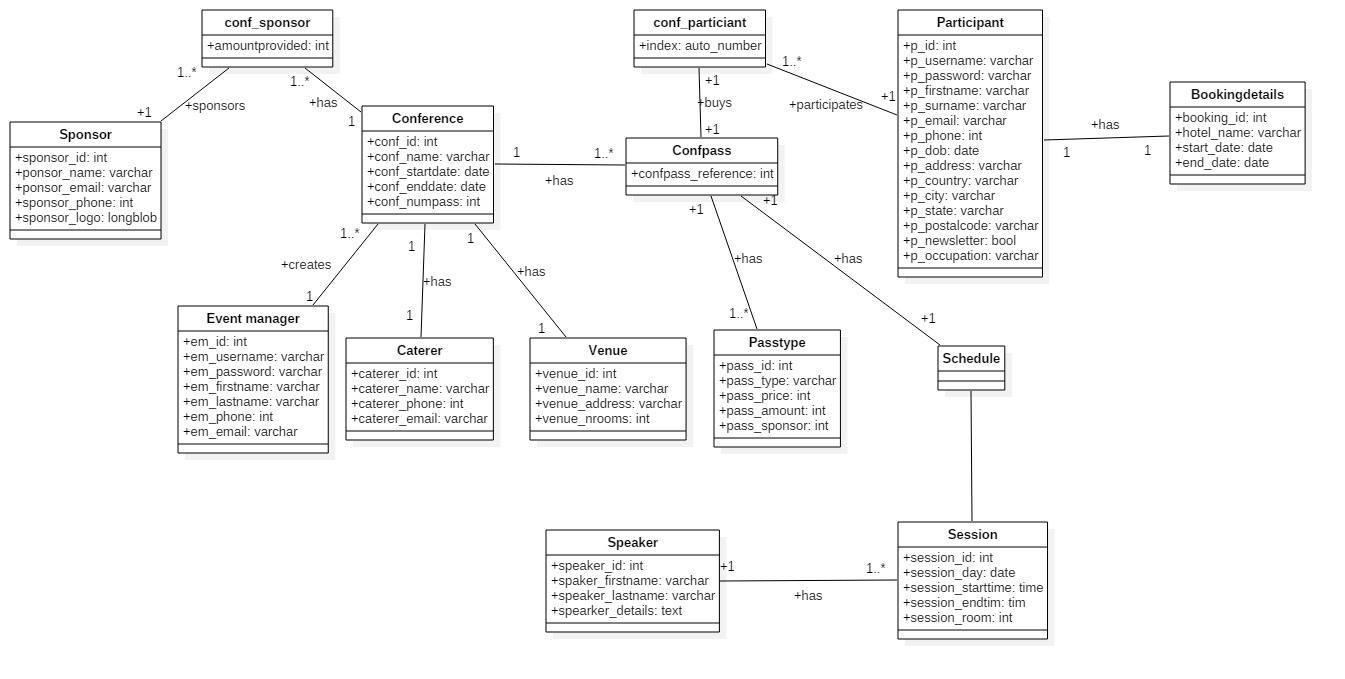
The purpose of this Software Design Document is to provide all the essential written description of a software, Conference System. In general, this documentation serves as a guidelines for the project team to the architecture of software, conference system. In addition, software design diagram, storage of persistent data and global flow control. It also emphasizes the use of component and UML to deal with solution domain complexity

## Scope

The document focuses on the design principle that would be adhered to while programming and articulating the software. In this document, the team has documented several process of designing the software using UML class diagram, Sequence diagram and Entity-Relationship Diagram.

# UML Class Diagram

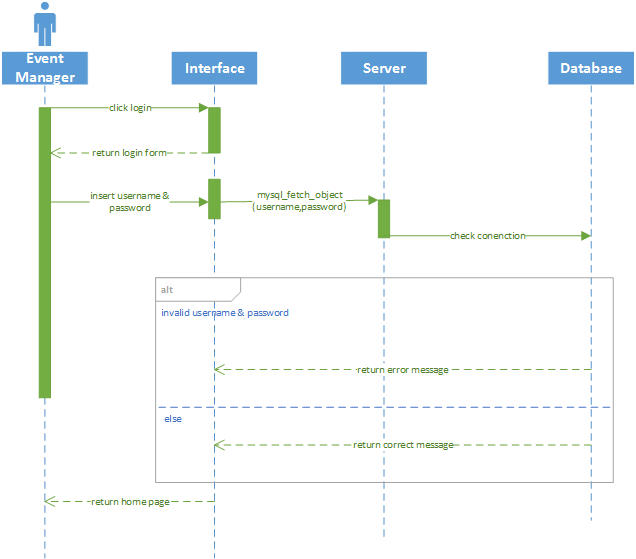
## 2.1 UML Class Diagram for Website



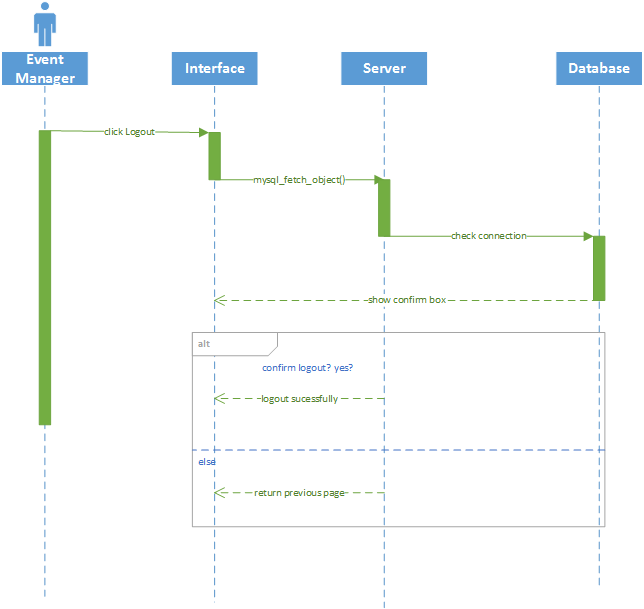
# Sequence Diagram for Website

## 3.1 Event Manager

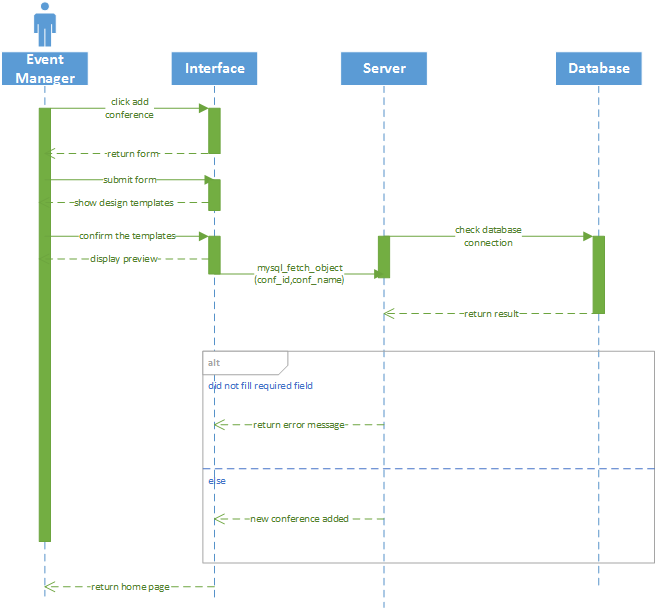
### 3.1.1Login



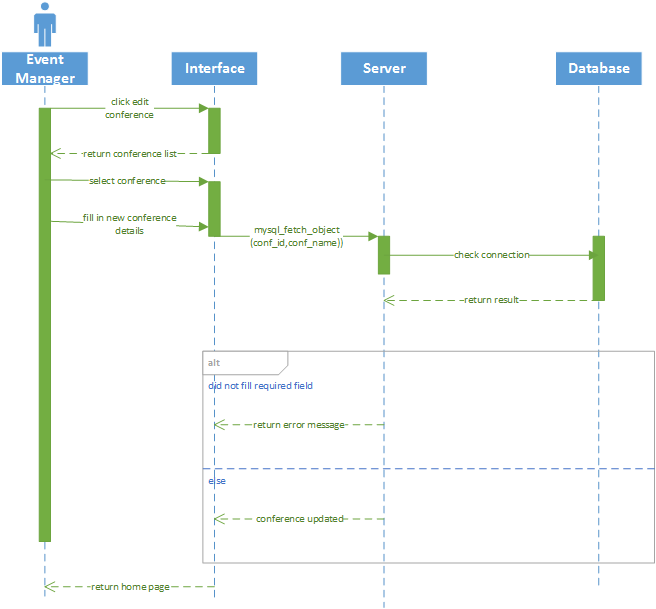
### 3.1.2 Logout



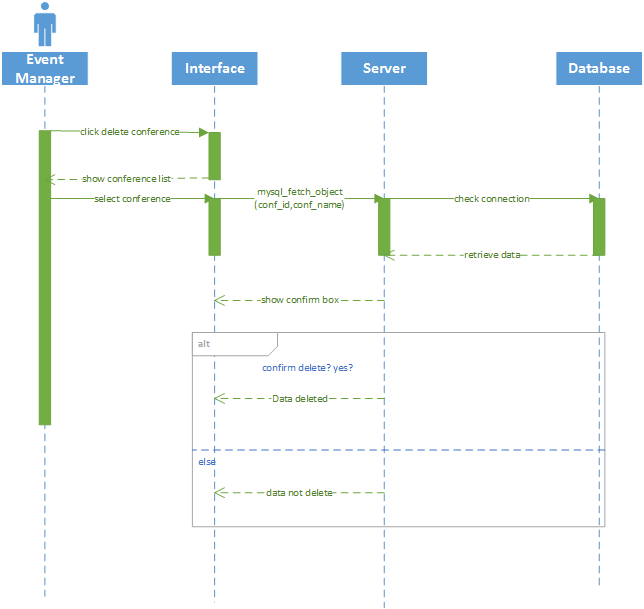
### 3.1.3 Add Conference



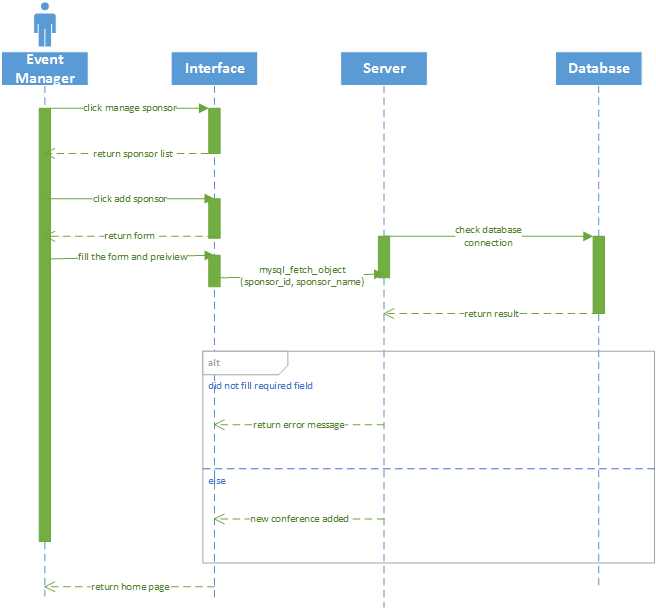
### 3.1.4 Edit Conference



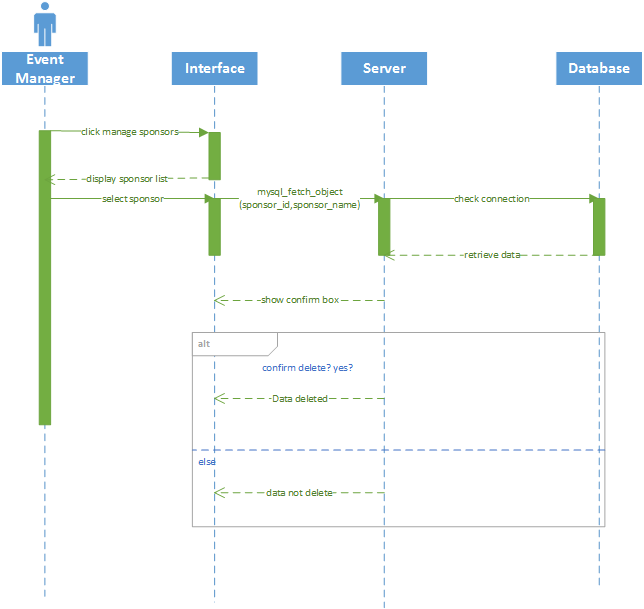
### 3.1.5 Remove Conference



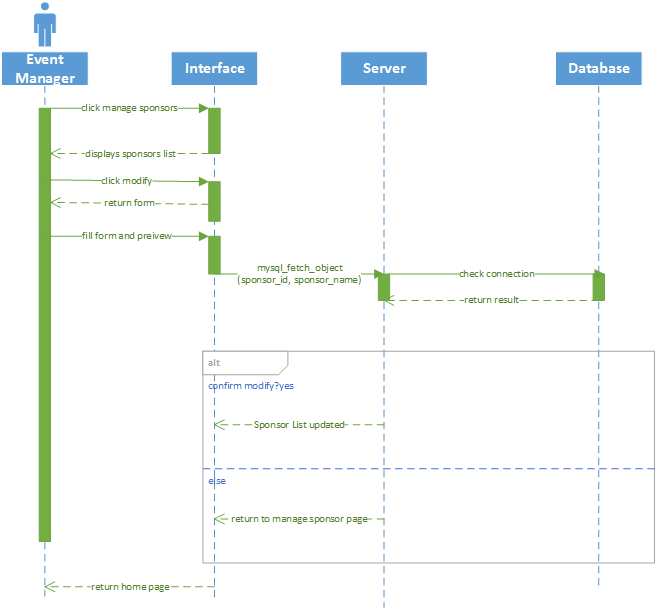
### 3.1.6 Add Sponsor



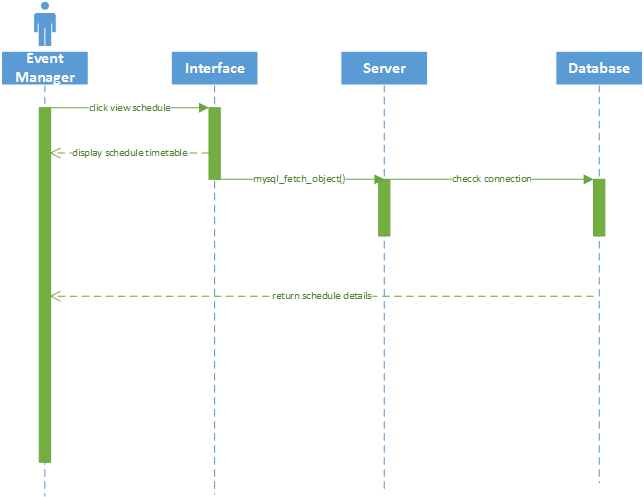
### 3.1.7 Delete Sponsor



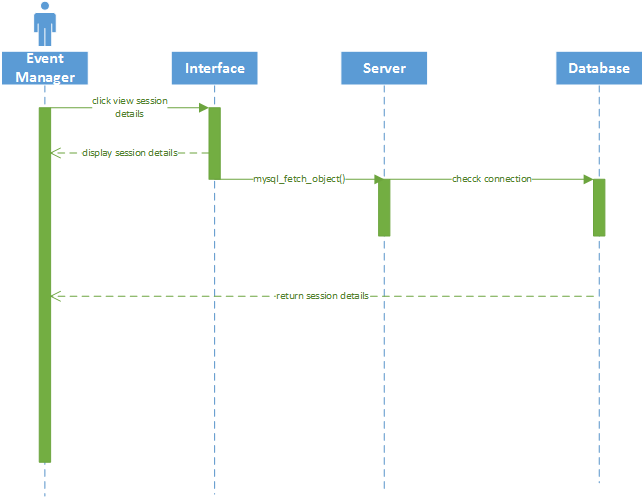
### 3.1.8 Modify Sponsors



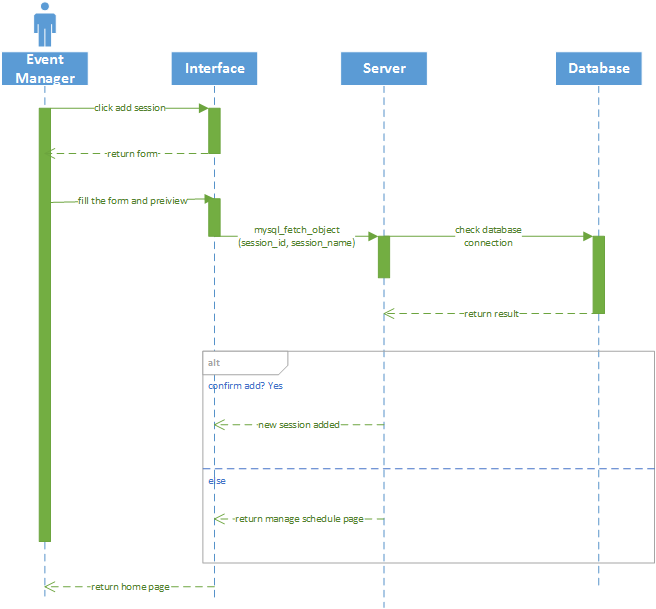
### 3.1.9 View Schedule



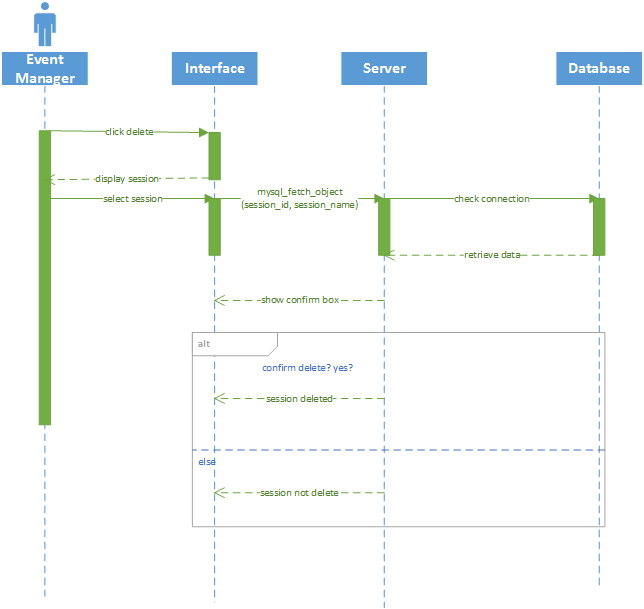
### 3.1.10 View Session Details



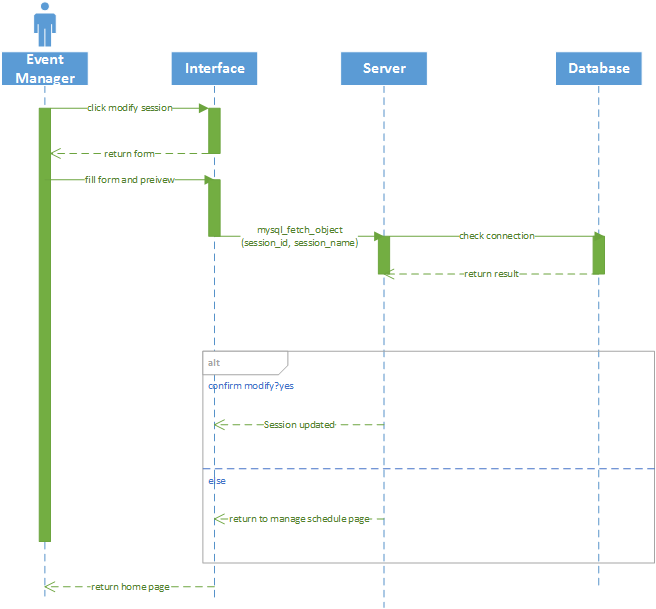
### 3.1.11 Add Session



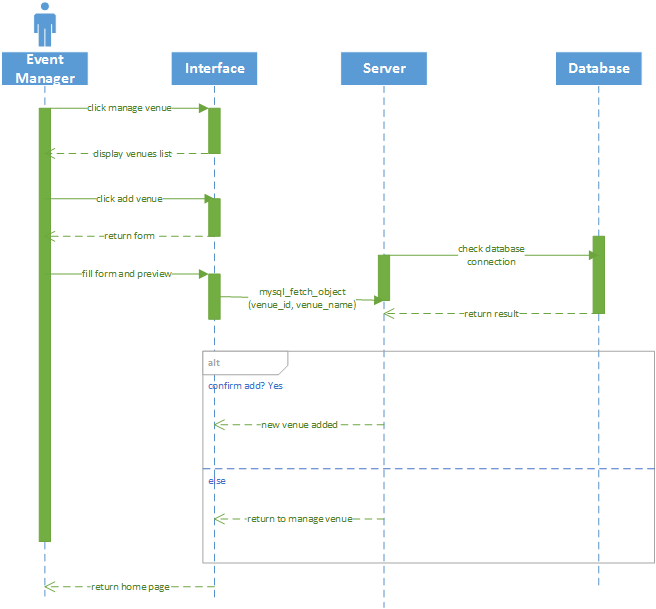
### 3.1.12 Delete Session



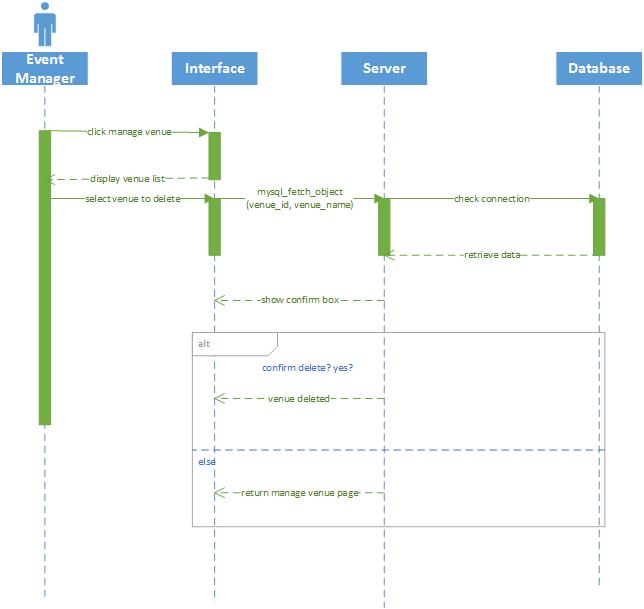
### 3.1.13 Modify Session



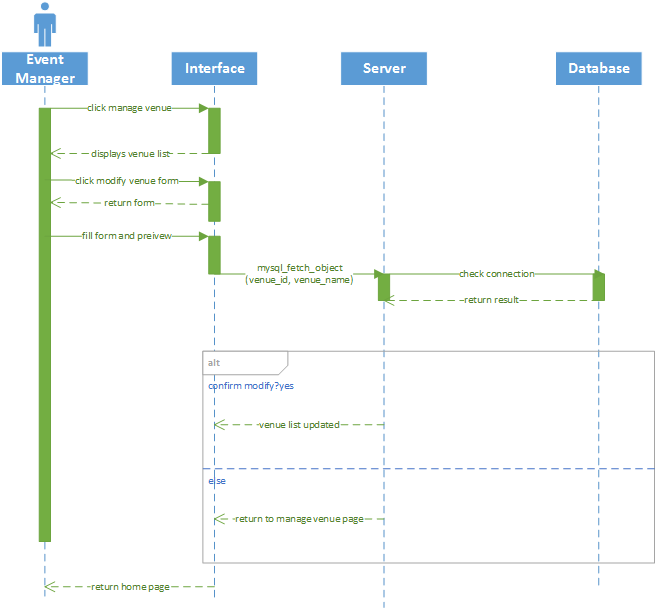
### 3.1.14 Add Venue



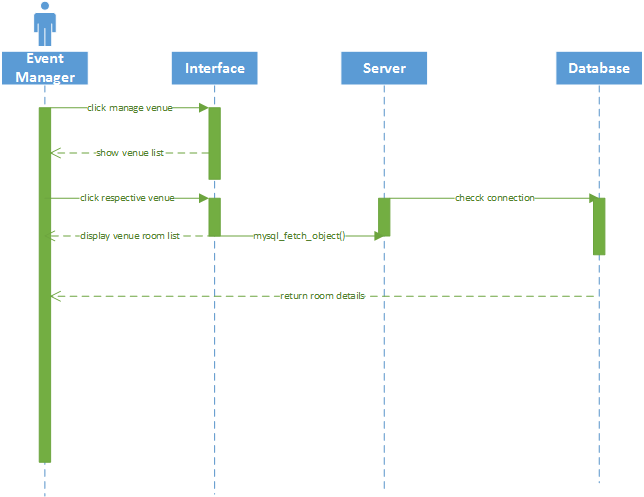
### 3.1.15 Delete Venue



### 3.1.16 Modify venue



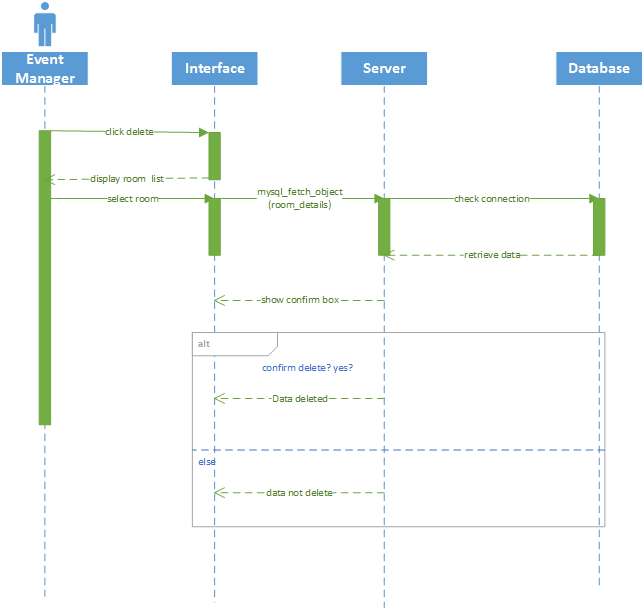
### 3.1.17 View Room



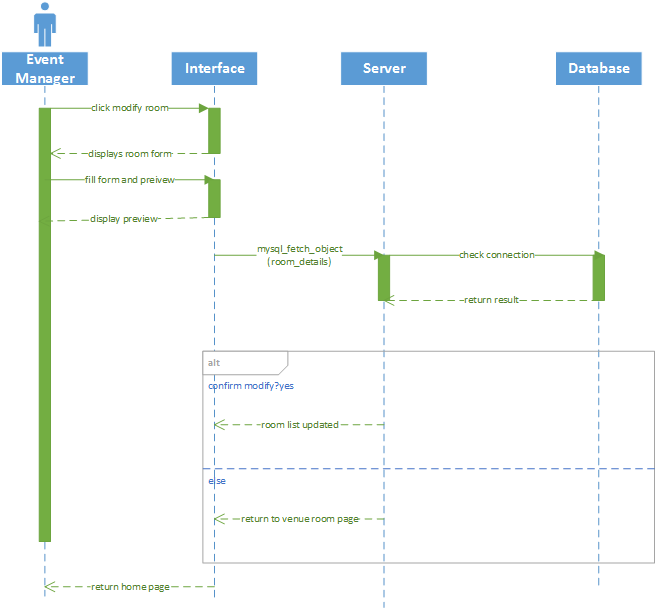
### 3.1.18 Add Room

### 

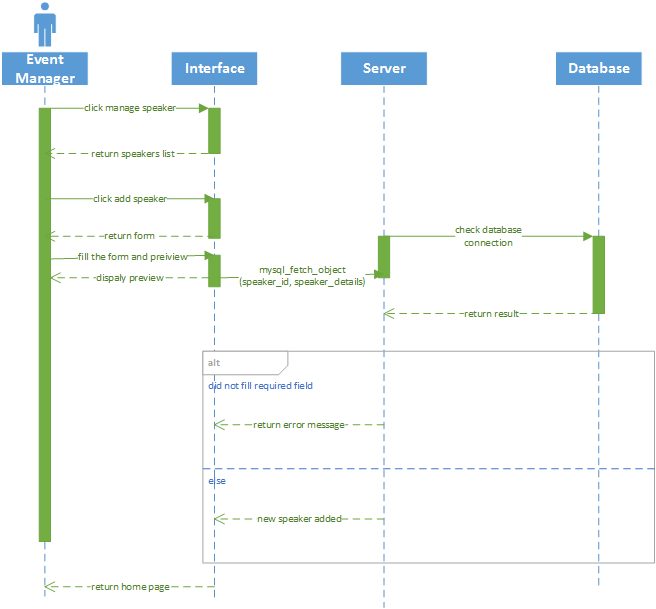
### 3.1.19 Delete Room



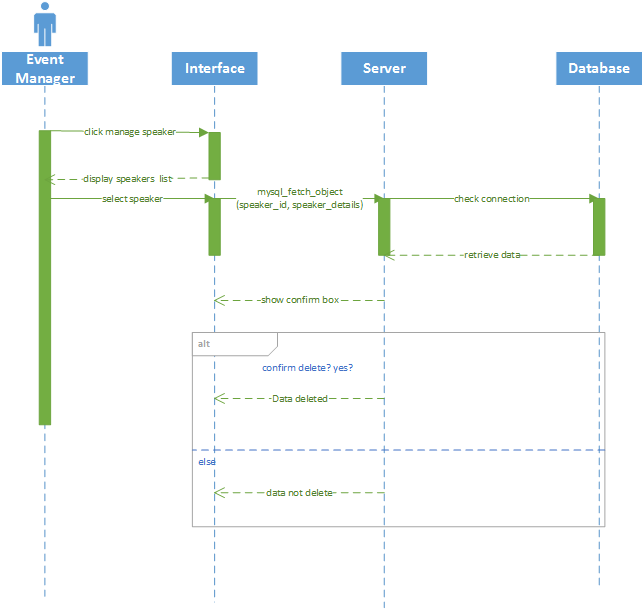
### 3.1.20 Modify Room



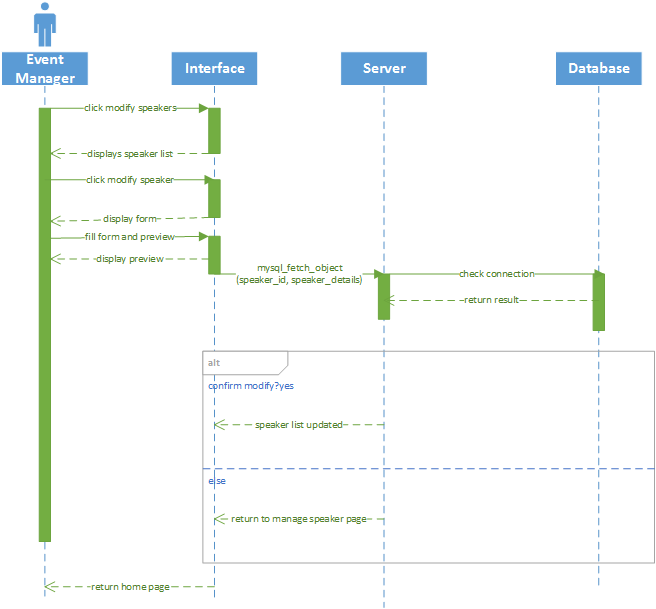
### 3.1.21 Add Speaker



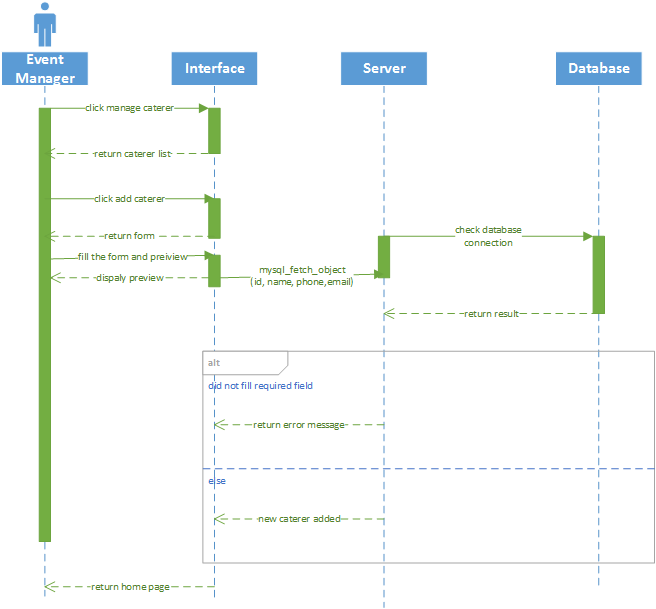
### 3.1.22 Delete Speaker



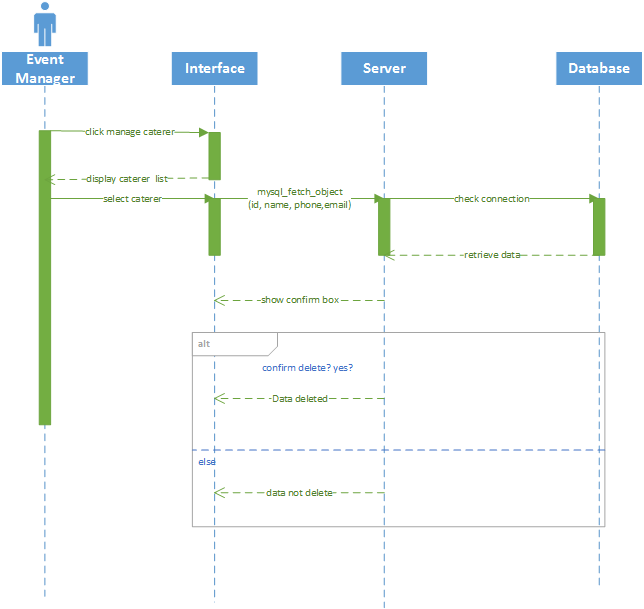
### 3.1.23 Modify Speaker



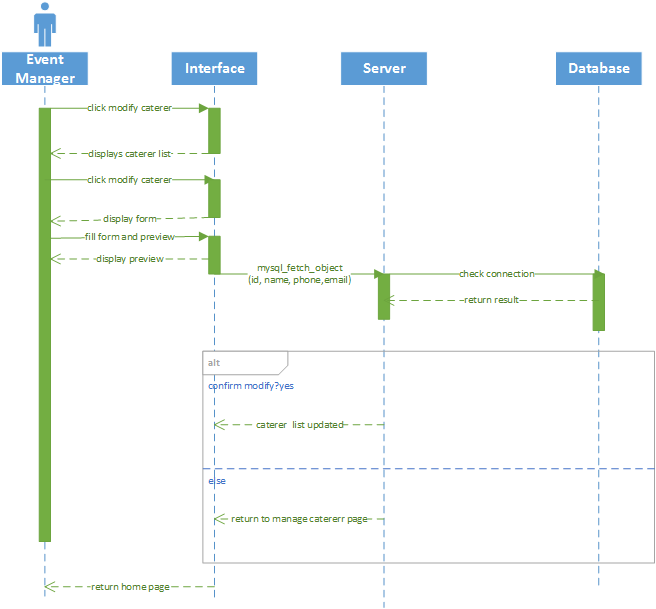
### 3.1.24 Add Caterer



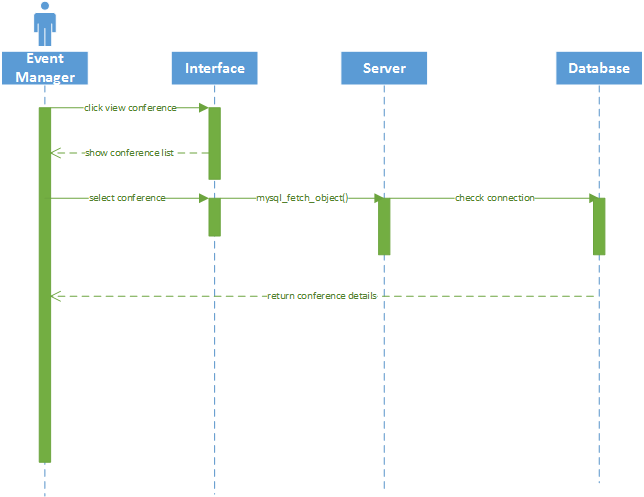
### 3.1.25 Delete Caterer



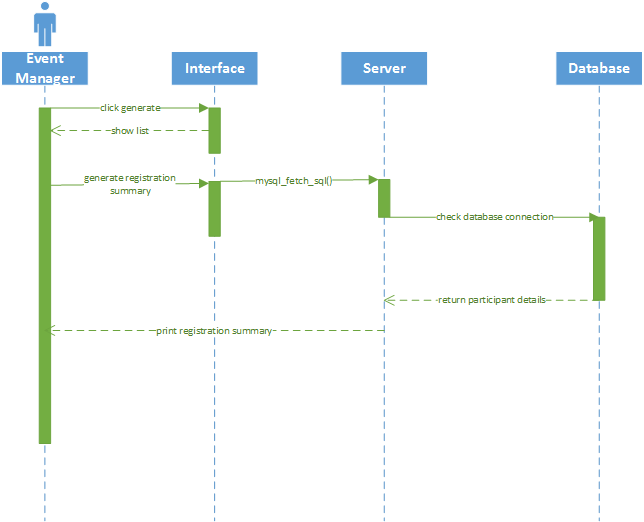
### 3.1.26 Modify Caterer



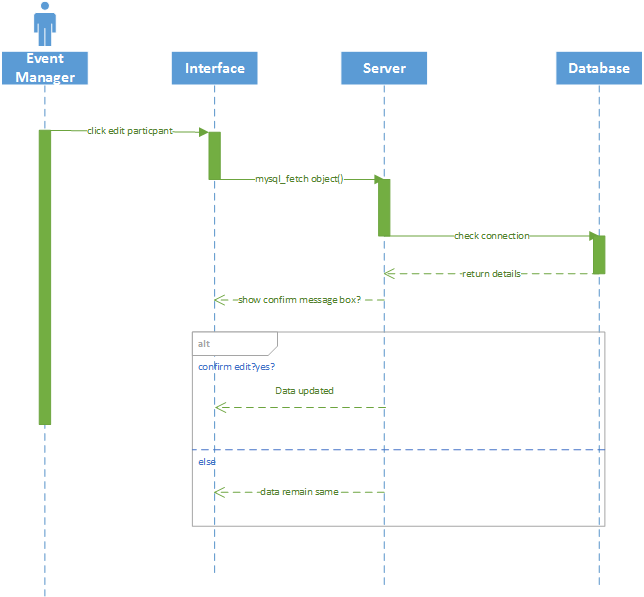
### 3.1.27 View Conference



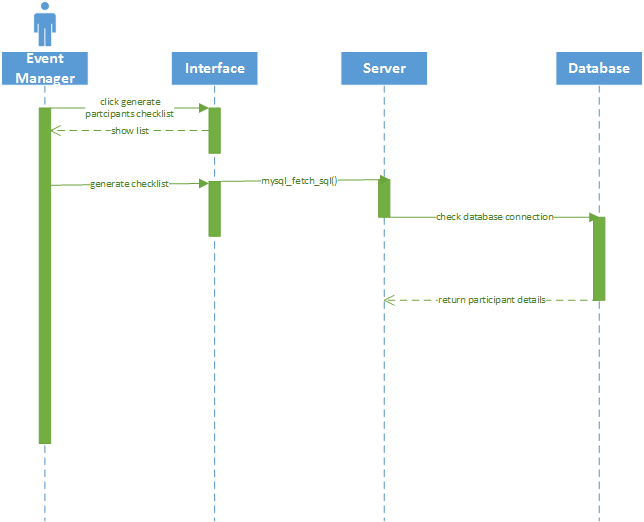
### 3.1.28 Generate Conference Registration Summary



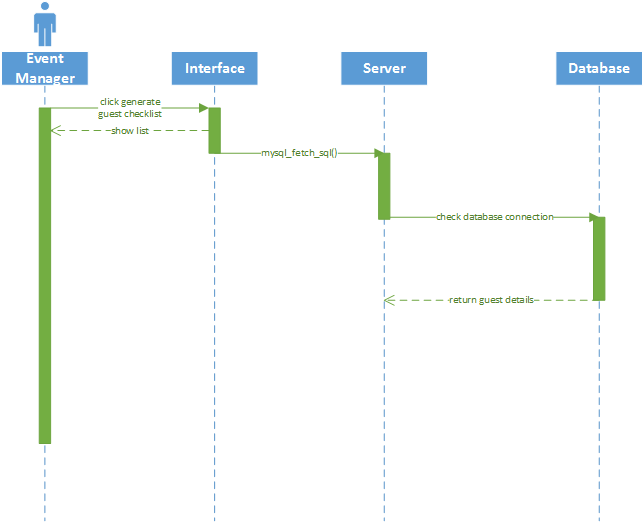
### 3.1.29 User Management



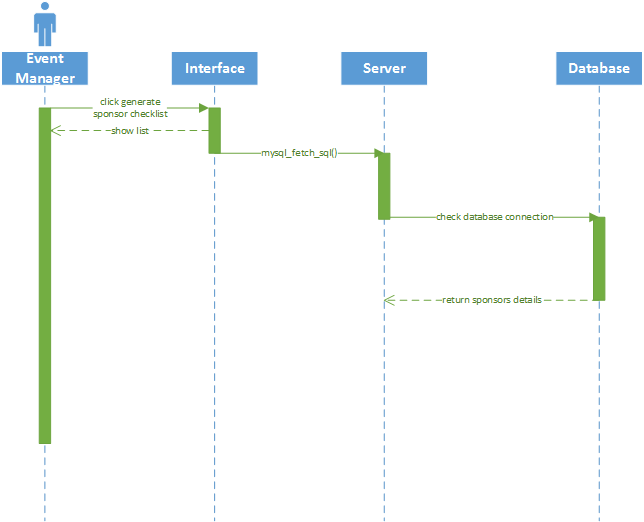
### 3.1.30 Generate Participants Checklist



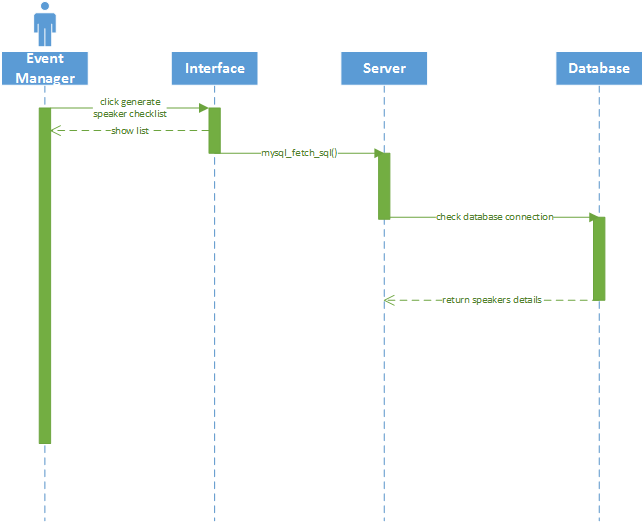
### 3.1.31 Generate Guest List



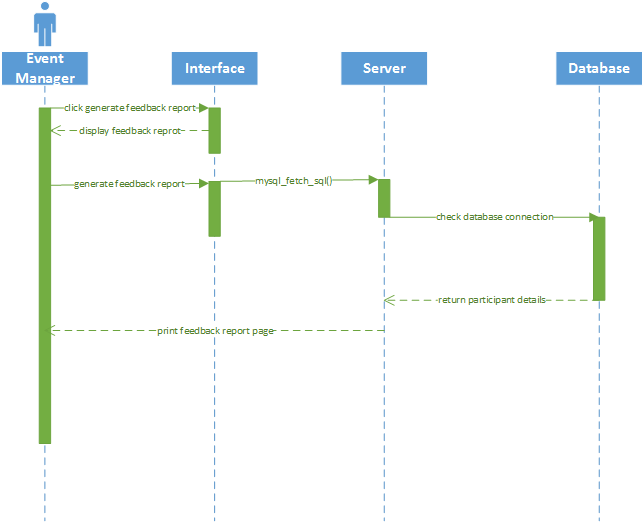
### 3.1.32 Generate Sponsors List



### 3.1.33 Generate Speakers List

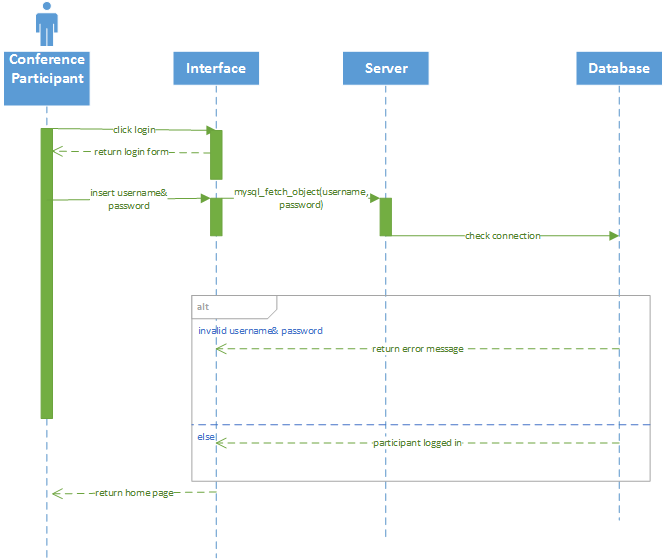


### 3.1.34 Generate Feedback Report

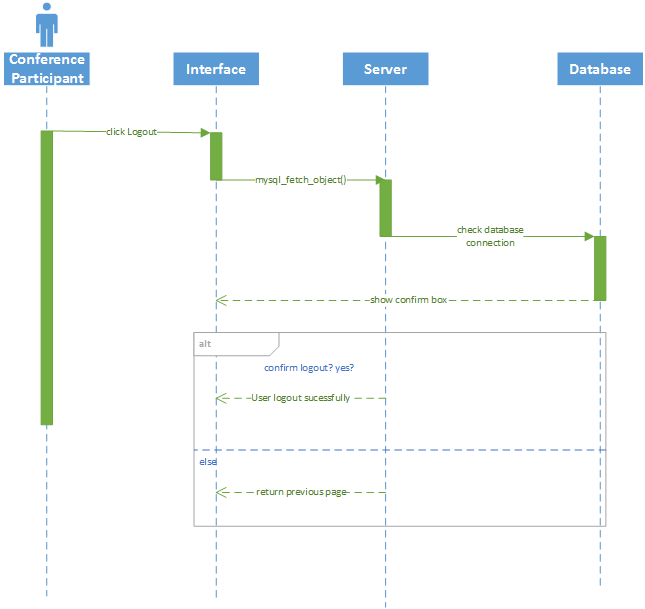


## 3.2 Conference Participant

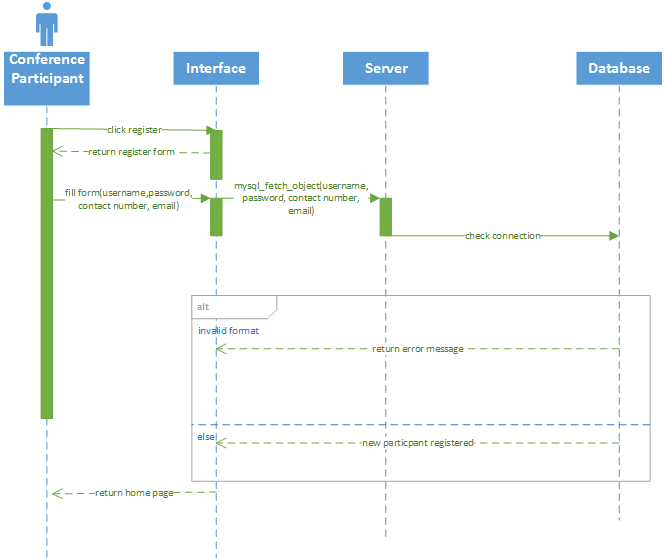
### 3.2.1 Login



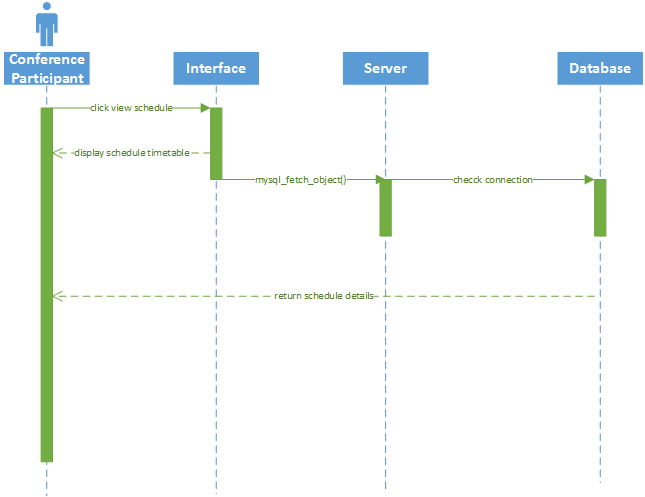
### 3.2.2 Logout



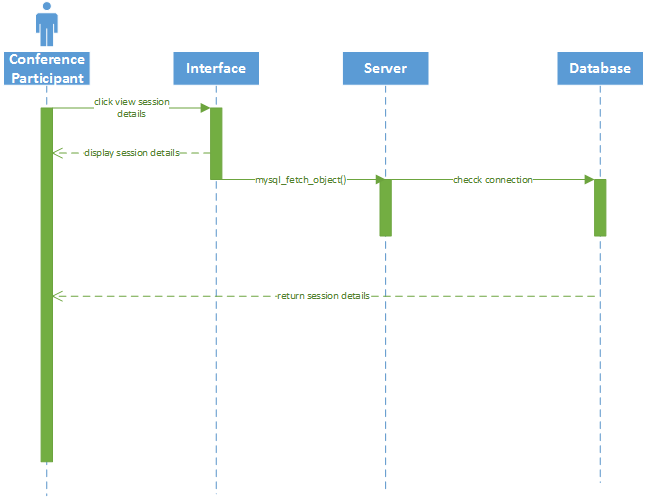
### 3.2.3 Registration



### 3.2.4 View Schedule



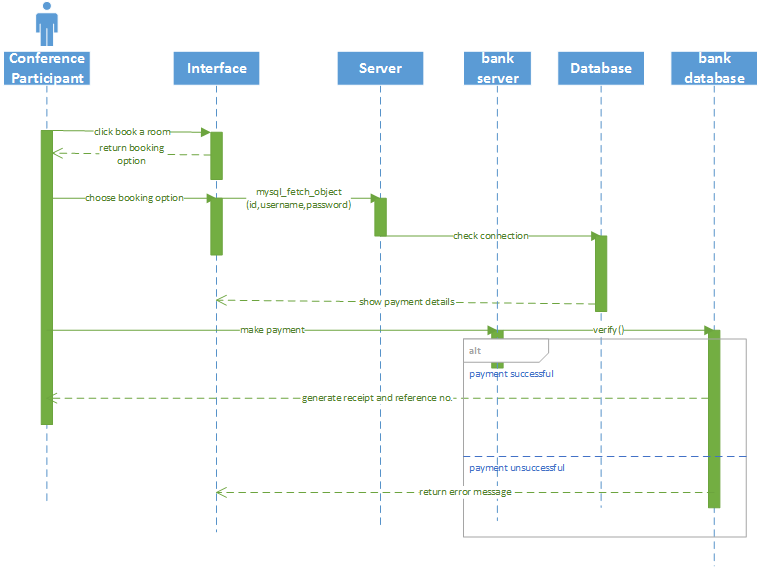
### 3.2.5 View session details



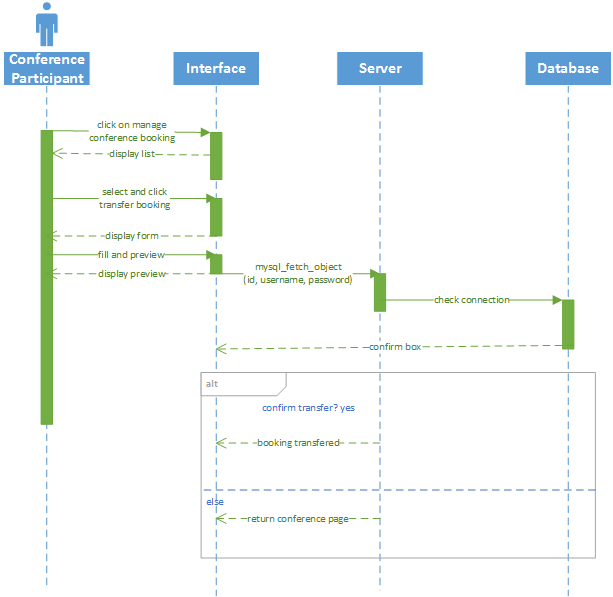
### 3.2.6 View Speaker

### 

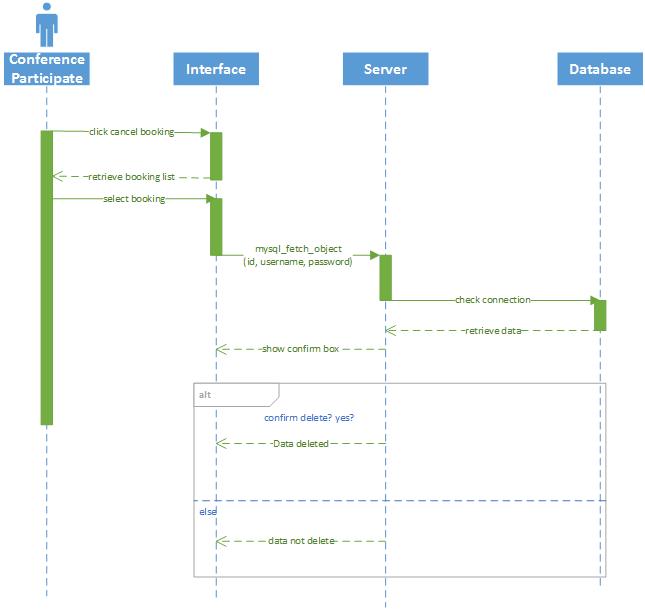
### 3.2.7 Make Conference Booking



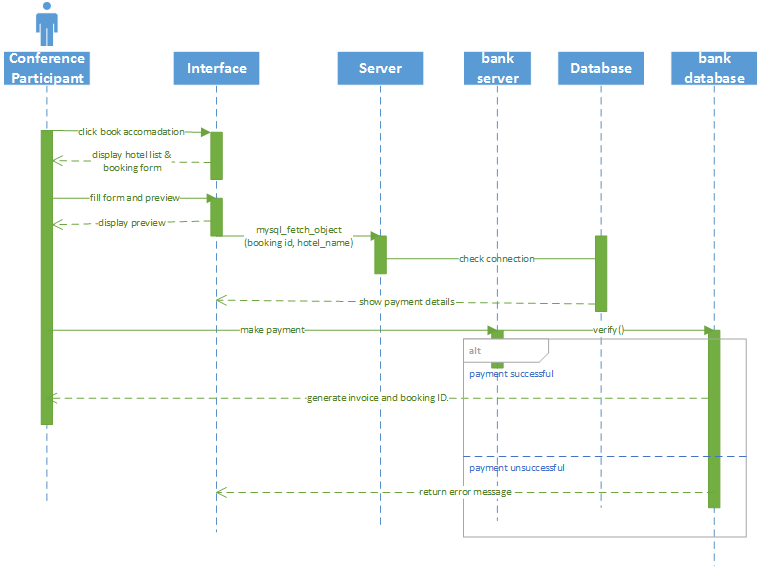
### 3.2.8 Transfer Conference Booking



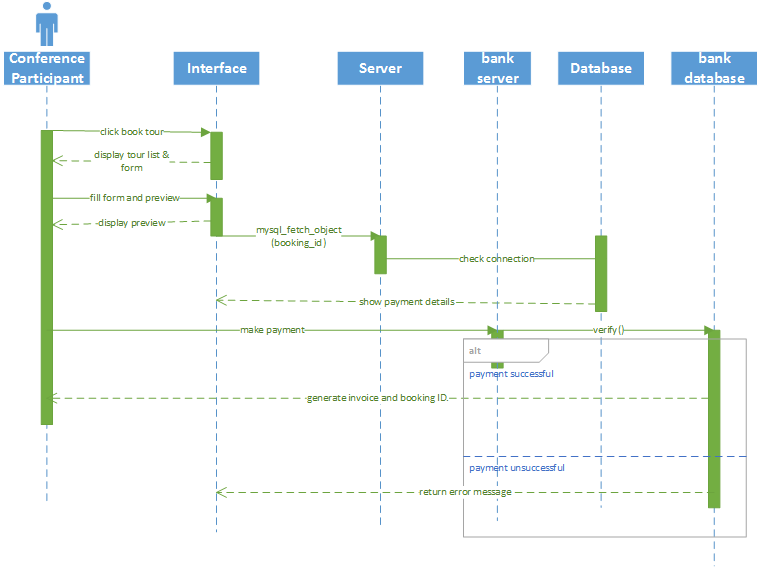
### 3.2.9 Cancel Conference Booking



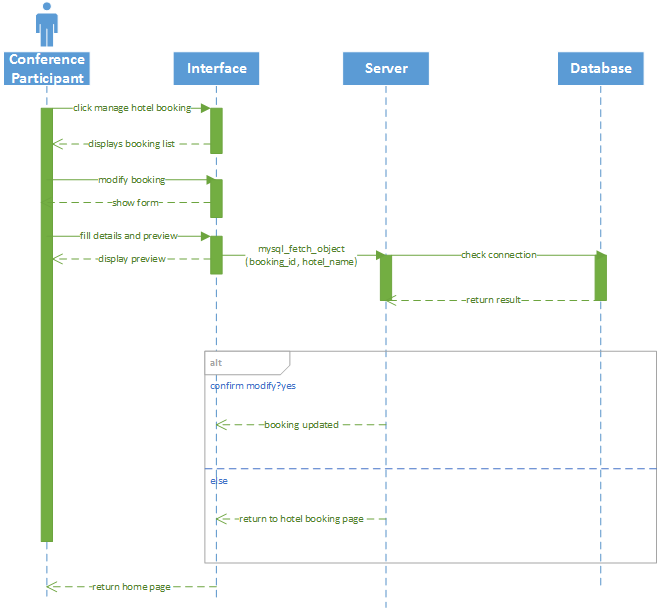
### 3.2.10 Book Hotel



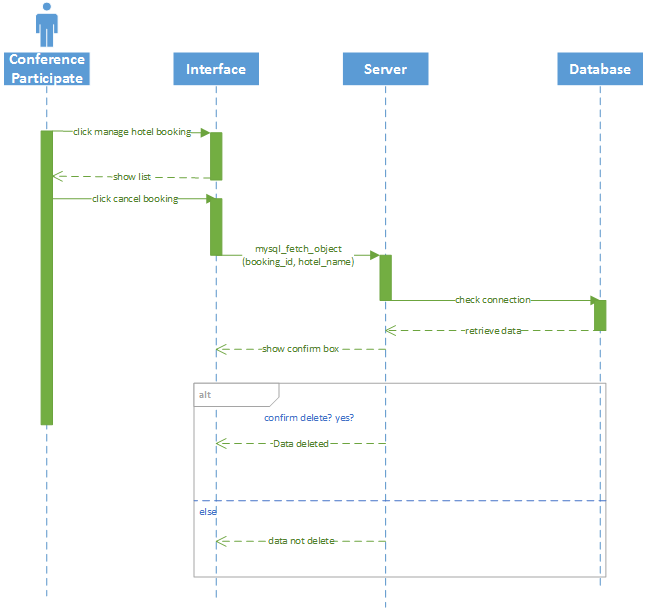
### 3.2.11 Book Tour



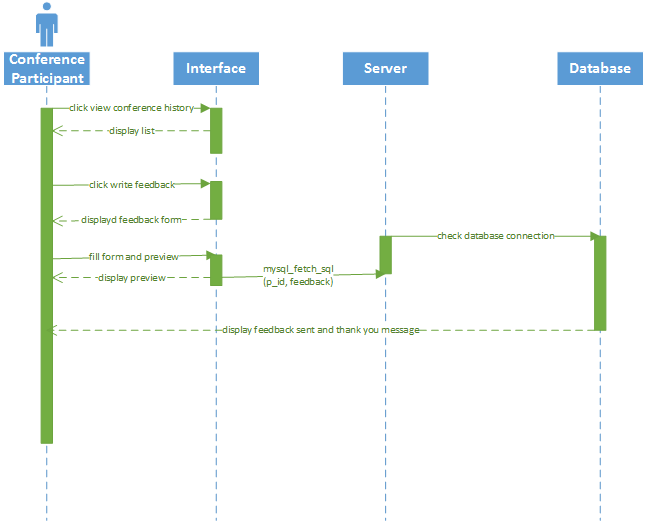
### 3.2.12 Modify Hotel Booking



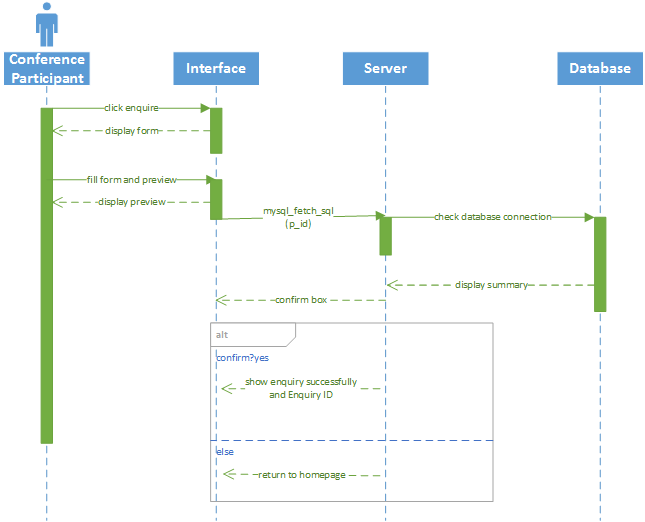
### 3.2.13 Cancel Hotel Booking



### 3.2.14 Provide Feedback

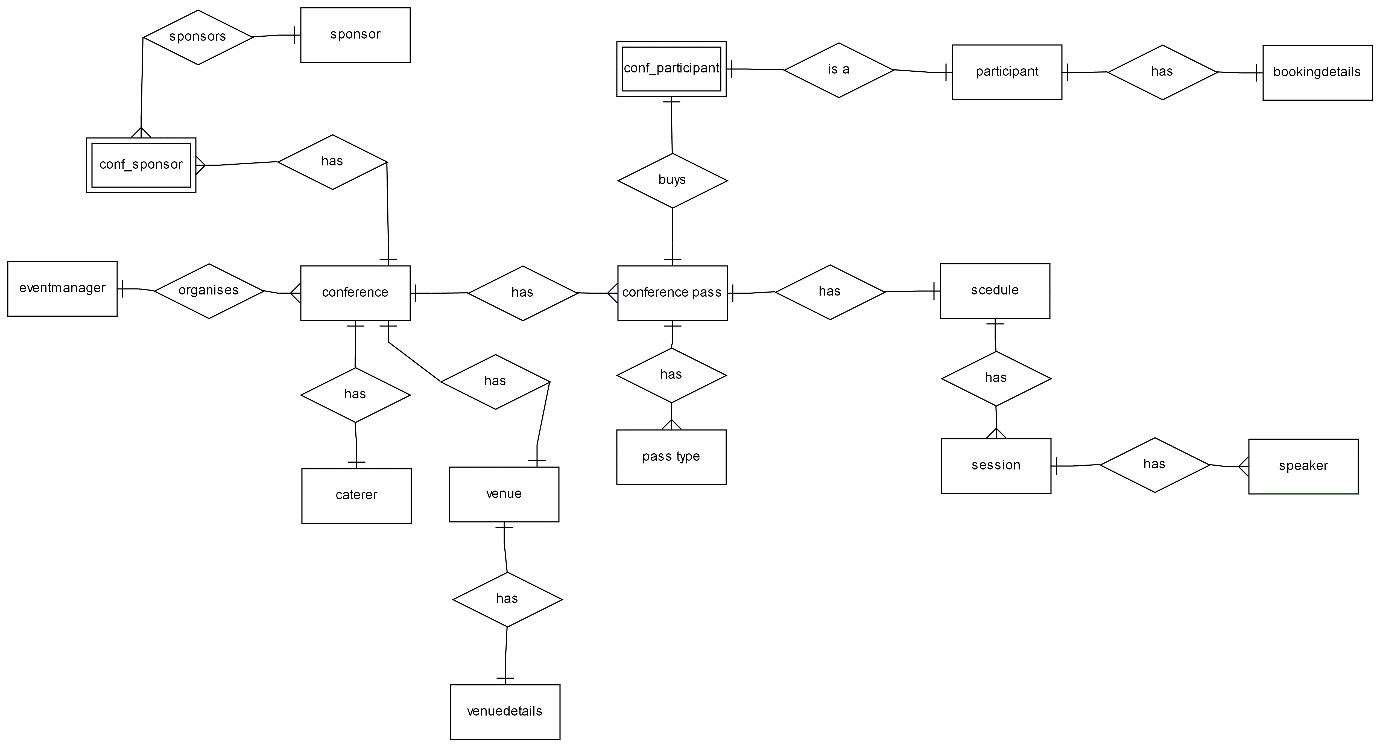


### 3.2.15 Enquire about conference



# 4.0 Entity-Relationship Diagram

The diagram below shows the Extended Entity Relationship Diagram for the data that is going to be stored in the system’s database



Relational schema

tbleventmanager (em\_id,em\_username,em\_password,em\_firstname,em\_lastname,em\_phone,em\_email)

PK: em\_id

FK: NONE

tblcaterer(caterer\_id,caterer\_name,caterer\_phone,caterer\_email)

PK: caterer\_id

FK: NONE

tblparticipant(p\_id,p\_username,p\_password,p\_firstname,p\_surname,p\_email,p\_phone,p\_dob,p\_address,p\_country,p\_city,p\_state,p\_postalcode,p\_newsletter,p\_occupation)

PK: p\_id

FK: NONE

tblspeaker(speaker\_id,speaker\_firstname,speaker\_lastname,speaker\_details,speaker\_image)

PK: speaker\_id

FK: NONE

tblsponsor(sponsor\_id,sponsor\_name,sponsor\_email,sponsor\_phone,sponsor\_logo)

PK: sponsor\_id

FK: NONE

tblvenue(venue\_id, venue\_name, venue\_address, venue\_nrooms)

PK: venue\_id

FK: NONE

tblpasstype(pass\_id,pass\_type,pass\_desc,pass\_price,pass\_amount,conf\_id)

PK: pass\_id

FK: NONE

tblconference (conf\_id,conf\_name,conf\_startdate,conf\_enddate,conf\_numpass,caterer\_id, venue\_id, em\_id, conf\_desc)

PK: conf\_id

FK: (em\_id) REFERENCES tbleventmanager(em\_id)

FK: (caterer\_id) REFERENCES tblcaterer(caterer\_id)

FK: (venue\_id) REFERENCES tblvenue(venue\_id)

tblconf\_sponsor(cs\_index, sponsor\_id, conf\_id, amount\_provided)

PK: cs\_index

FK: (conf\_id) REFERENCES tblconference(conf\_id)

FK: (sponsor\_id) REFERENCES tblsponsor(sponsor\_id)

tblconf\_participant(conf\_id, p\_id, confpass\_reference)

PK: confpass\_reference

FK: (conf\_id) REFERENCES tblconference(conf\_id)

FK: (p\_id) REFERENCES tblparticipant(p\_id)

tblscession(session\_id, conf\_id, speaker\_id, session\_day, session\_starttime, session\_endtime, session\_room, session\_name)

PK: session\_id

FK: (conf\_id) REFERENCES tblconference(conf\_id),

FK: (speaker\_id) REFERENCES tblspeaker(speaker\_id)

tblbookingdetails(booking\_id, p\_id, p\_firstname, p\_surname, confpass\_reference, hotel\_name, start\_date, end\_date, amount\_paid);

PK: booking\_id

FK: (p\_id) REFERENCES tblparticipant(p\_id)

FK: (confpass\_reference) REFERENCES tblconf\_participant(confpass\_reference)

Table definition

tbleventmanager

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Data type** | **NULL value allowed** |
| em\_id | Integer | 6 |
| em\_username | Varchar | 15 |
| em\_password | Varchar | 15 |
| em\_firstname | Varchar | 15 |
| em\_lastname | Varchar | 25 |
| em\_phone | Integer | 15 |
| em\_email | Varchar | 50 |

tblcaterer

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Data type** | **NULL value allowed** |
| caterer\_id | Integer | 6 |
| caterer\_name | Varchar | 40 |
| caterer\_phone | Integer | 14 |
| caterer\_email | Varchar | 50 |

tblparticipant

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Data type** | **NULL value allowed** |
| p\_id | Integer | 6 |
| p\_username | Varchar | 20 |
| p\_password | Varchar | 15 |
| p\_firstname | Varchar | 20 |
| p\_surname | Varchar | 30 |
| p\_email | Varchar | 50 |
| p\_phone | Integer | 15 |
| p\_dob | Date | Not NULL |
| P\_address | Varchar | 50 |
| p\_country | Varchar | 30 |
| p\_city | Varchar | 30 |
| p\_state | Varchar | 30 |
| p\_postalcode | Varchar | 10 |
| p\_newsletter | Boolean | Not NULL |
| p\_occupation | Varchar | 30 |

tblspeaker

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Data type** | **NULL value allowed** |
| speaker\_id | Integer | 6 |
| speaker\_firstname | Varchar | 30 |
| spearker\_lastname | Varchar | 40 |
| speaker\_details | Text | Not NULL |
| speaker\_image | LongBlob | Not NULL |

tblsponsor

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Data type** | **NULL value allowed** |
| sponsor\_id | Integer | 6 |
| sponsor\_name | Varchar | 50 |
| sponsor\_email | Varchar | 50 |
| sponsor\_phone | Integer | 15 |
| sponsor\_logo | Longlob | Not NULL |

tblvenue

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Data type** | **NULL value allowed** |
| venue\_id | Integer | 6 |
| venue\_name | Varchar | 50 |
| venue\_address | Varchar | 80 |
| venue\_nrooms | Integer | 2 |

tblpasstype

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Data type** | **NULL value allowed** |
| pass\_id | Integer | 6 |
| pass\_type | Varchar | 25 |
| pass\_desc | Text | Not NULL |
| pass\_price | Integer | 5 |
| pass\_amount | Integer | 4 |

tblconference

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Data type** | **NULL value allowed** |
| conf\_id | Integer | 6 |
| conf\_name | Varchar | 50 |
| conf\_startdate | Date | Not NULL |
| conf\_enddate | Date | Not NULL |
| conf\_numpass | Integer | 4 |
| caterer\_id | Integer | 6 |
| venue\_id | Integer | 6 |
| em\_id | Integer | 6 |
| conf\_desc | Text | Not NULL |

tblconf\_sponsor

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Data type** | **NULL value allowed** |
| cs\_index | Integer | 6 |
| sponsor\_id | Integer | 6 |
| conf\_id | Integer | 6 |
| amount\_provided | Integer | 5 |

tblconf\_participant

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Data type** | **NULL value allowed** |
| conf\_id | Integer | 6 |
| p\_id | Integer | 6 |
| confpass\_reference | Integer | 6 |

tblsessions

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Data type** | **NULL value allowed** |
| session\_id | Integer | 6 |
| conf\_id | Integer | 6 |
| speaker\_id | Integer | 6 |
| session\_day | Date | Not NULL |
| session\_starttime | Time | Not NULL |
| session\_endtime | Time | Not NULL |
| session\_room | Integer | 2 |
| session\_name | Varchar | 100 |

tblbookingdetails

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Data type** | **NULL value allowed** |
| booking\_id | Integer | 6 |
| p\_id | Integer | 6 |
| p\_firstname | Varchar | 20 |
| p\_surname | Varchar | 30 |
| confpass\_reference | Integer | 6 |
| hotel\_name | Varchar | 40 |
| start\_date | Date | Not NULL |
| end\_date | Date | Not NULL |
| amount\_paid | Float | 6 |