|  |  |  |  |
| --- | --- | --- | --- |
| Id | Data | Des | Var/Con |
| name | string | Bookers Name | Var |
| email | string | Bookers Email | Var |
| phone | string | Bookers Number | Var |
| numMembers | int | Number of Band Members | Var |
| numDays | int | Number of Days | Var |
| numSession | int | Number of session Musicians | Var |
| MAX\_PEOPLE | Int | Max Num of Musicians = 8 | Con |
| payOption | int | Payment Option | Var |
| CARD | double | Card levy 5% | Con |
| CASH | double | Cash Discount 5% | Con |
| totalAmount | double | Total amount | Var |
| date | string | Date requested | Var |
| memberName | string | Member name string | Var |
| memberInst | string | Member instrument string | Var |
| DAILY\_RATE1 | Int | 1 Day rate 260 | Con |
| DAILY\_RATE2 | Int | 2-4 Days rate 240 | Con |
| DAILY\_RATE3 | Int | 5-8 Days rate 210 | Con |
| DAILY\_RATE4 | Int | 9+ Days rate 200 | Con |
| memberList | String | List of band members and instruments | Var |
| SESSION\_CHARGE | Int | Session charge fee | Con |
| payType | string | Payment type | Var |
| MaxSesMusicians | int | Max possible session musicians | var |

**Algorithm**

* Prompt Booker for their Name

Read in Bookers Name

* Prompt Booker for their Email

Read in Bookers Email

* Prompt Booker for their Number

Read in Bookers Number

* Prompt for start Date

Read in start Date

* Prompt for Number of band members

Read in Number of band members

Validate input

* Prompt for Number of Days

Read in Number of days

Validate input

* Using loop prompt for each band member’s name and their instrument

Read in band member’s name and their instrument

Append name and instrument to memberList

* Number of session musicians available is …

MaxSesMusicians = MAX\_PEOPLE – numMembers

* If numMembers less than 8 then Prompt for Number of session musicians

Read in Number of session musicians

Validate input

* Prompt for payment option

Read in payment option

Validate input

* Calculate total amount of bill.

Calculate as follows:

totalAmount = numDays X (daily rate + (numSession X SESSION\_CHARGE))

if payOption = 1

    payType = "credit card"

    totalAmount \*= (1+CARD)

else if payOption = 2

    payType = "cash"

    totalAmount \*= (1-CASH)

else

           payType = "cheque"

* Print out booking application details.

**Test plans**

**Test plan 1**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **1** | **2** | **3** | **4** |
| **booker** | **Jeff murphy** |  |  |  |
| **Email** | **Jeff** [**murphy@hotm.com**](mailto:murphy@hotm.com) |  |  |  |
| **Number** | **0871368884** |  |  |  |
| **Date** | **27/10/98** |  |  |  |
| **No. days** | **2** |  |  |  |
| **No. band** | **3** |  |  |  |
| **Band names** | **Alan kelly** | **J. murphy** | **Don leary** |  |
| **Instruments** | **Flute** | Banjo | **vocal** |  |
| **Sessions musicians** | **1** |  |  |  |
| **Payment type** | **cash** |  |  |  |
| **Final price** | **646** |  |  |  |

**Output**

Booking application

-------------------

Requested by: Jeff murphy (Contact: Jeff murphy@hotm.com

& 0871368884)

Date requested --> 27/10/98

Band Members 3

Number of days 2

-----------

1: Alan kelly - flute

2: J. murphy - Banjo

3: Don leary - vocal

Includes 1 session musicians per day.

Payment will be €646.00 to be paid by cash

**Test plan 2**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | **1** | **2** | | **3** | | | **4** | |
| **booker** | | **Billy hill** |  | |  | | |  | |
| **email** | | **Billyhill @gmail.com** |  | |  | | |  | |
| **number** | | **0871368884** |  | |  | | |  | |
| **date** | | **27/10/98** |  | |  | | | |  |
| **No. days** | **6** | | |  |  | |  | | |
| **No. band** | | **4** |  | |  |  | | | |
| **Band names** | | **Alan kelly** | **J murphy** | | **Andy White** | **Don leary** | | | |
| **instruments** | | **flute** | Banjo | | **vocal** | **Guitar** | | | |
| **Sessions musicians** | | **4** |  | |  |  | | | |
| **Payment type** | | **cheque** |  | |  |  | | | |
| **Final price** | | **3660** |  | |  |  | | | |

**Output**

Booking application

-------------------

Requested by: Billy hill (Contact: Billyhill@gmail.com

& 0871368884)

Date requested --> 27/10/98

Band Members 4

Number of days 6

-----------

1: Alan kelly - flute

2: J. murphy – Banjo

3: Andy white - vocal

4: Don leary - Guitar

Includes 6 session musicians per day.

Payment will be €3660.00 to be paid by cheque

**Test plan 3**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | **1** | **2** | | **3** | | | **4** | |
| **booker** | | **Billy hill** |  | |  | | |  | |
| **email** | | **Billyhill @gmail.com** |  | |  | | |  | |
| **number** | | **0871368884** |  | |  | | |  | |
| **date** | | **27/10/98** |  | |  | | | |  |
| **No. days** | **4** | | |  |  | |  | | |
| **No. band** | | **4** |  | |  |  | | | |
| **Band names** | | **Alan kelly** | **J murphy** | | **Andy White** | **Don leary** | | | |
| **instruments** | | **Flute** | **banjo** | | **vocal** | **Guitar** | | | |
| **Sessions musicians** | | **3** |  | |  |  | | | |
| **Payment type** | | **cash** |  | |  |  | | | |
| **Final price** | | **2052** |  | |  |  | | | |

**Output**

Booking application

-------------------

Requested by: Billy hill (Contact: Billyhill@gmail.com

& 0871368884)

Date requested --> 27/10/98

Band Members 4

Number of days 4

-----------

1: Alan kelly - flute

2: J. murphy – Banjo

3: Andy white - vocal

4: Don leary - Guitar

Includes 3 session musicians per day.

Payment will be €2052.00 to be paid by cash

**Test plan 4**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **1** | **2** | **3** |
| **booker** | **Fozzy Bear** |  |  |
| **email** | **fozzy@muppets.com** |  |  |
| **number** | **0871234567** |  |  |
| **date** | **14/10/2014** |  |
| **No. days** | **3** |  |
| **No. band** | **3** |  |  | |
| **Band names** | **Miss Piggy** | **Kermit the Frog** | **Animal** | |
| **instruments** | **Vocals** | Vocals | **Drums** | |
| **Sessions musicians** | **2** |  |  | |
| **Payment type** | **card** |  |  | |
| **Final price** | **€1386.00** |  |  | |

Booking application

-------------------

Requested by: Fozzy Bear(Contact: fozzy@muppets.com

& 087-1234567)

Date requested --> 14/10/2014

Band Members

-----------

1: Miss Piggy - Vocals

2: Kermit the Frog - Vocals

3: Animal - Drums

Includes 2 session musicians per day.

Payment will be €1386.00 to be paid by Credit Card