

Model

Package in package "

Model
Version Phase 1.0 Proposed
uidn7735 created on 11/25/2017. Last modified 11/25/2017

eTicketing - Component

Package in package 'Model'

eTicketing - Component
Version 1.0 Phase 1.0 Proposed
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eTicketing - Component diagram

Component diagram in package 'eTicketing - Component'

eTicketing - Component
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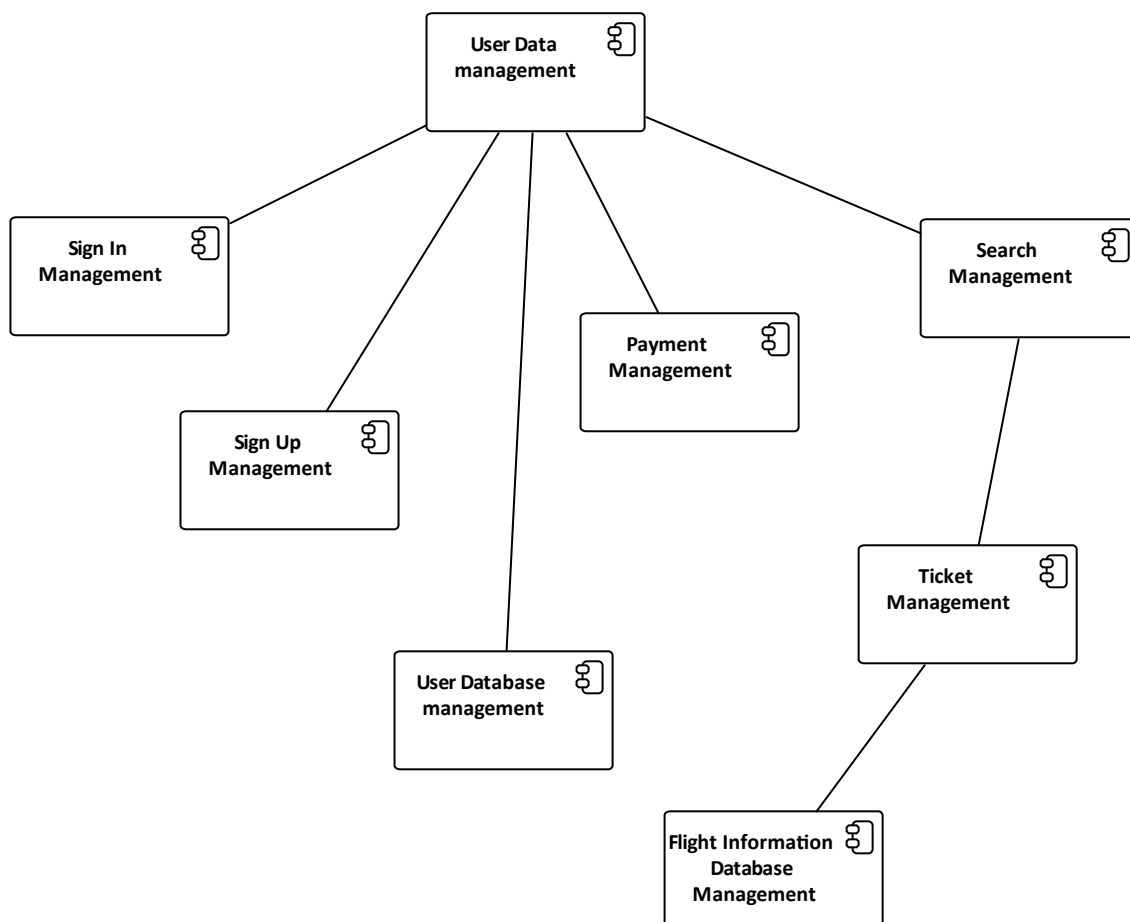


Figure 1: eTicketing - Component

Flight Information Database Management

Component in package 'eTicketing - Component'

Flight Information Database Management
Version 1.0 Phase 1.0 Proposed
uidn7735 created on 11/25/2017. Last modified 11/25/2017

ASSOCIATIONS

 Association (direction: Unspecified)

Source: Public (Component) Ticket Management

Target: Public (Component) Flight Information Database Management

Payment Management

Component in package 'eTicketing - Component'

Payment Management
Version 1.0 Phase 1.0 Proposed
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ASSOCIATIONS

 Association (direction: Unspecified)

Source: Public (Component) User Data management

Target: Public (Component) Payment Management

Search Management

Component in package 'eTicketing - Component'

Search Management
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ASSOCIATIONS

 Association (direction: Unspecified)

Source: Public (Component) Search Management

Target: Public (Component) Ticket Management

 Association (direction: Unspecified)

Source: Public (Component) User Data management

Target: Public (Component) Search Management

Sign In Management

Component in package 'eTicketing - Component'

Sign In Management
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ASSOCIATIONS

 Association (direction: Unspecified)

Source: Public (Component) User Data management

Target: Public (Component) Sign In Management

Sign Up Management

Component in package 'eTicketing - Component'

Sign Up Management
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ASSOCIATIONS

 Association (direction: Unspecified)

Source: Public (Component) User Data management

Target: Public (Component) Sign Up Management

Ticket Management

Component in package 'eTicketing - Component'

Ticket Management
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ASSOCIATIONS

 Association (direction: Unspecified)

Source: Public (Component) Ticket Management

Target: Public (Component) Flight Information
Database Management

 Association (direction: Unspecified)

Source: Public (Component) Search Management

Target: Public (Component) Ticket Management

User Data management

Component in package 'eTicketing - Component'


User Data management
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ASSOCIATIONS	
 Association (direction: Unspecified)	
Source: Public (Component) User Data management	Target: Public (Component) User Database management
 Association (direction: Unspecified)	
Source: Public (Component) User Data management	Target: Public (Component) Payment Management
 Association (direction: Unspecified)	
Source: Public (Component) User Data management	Target: Public (Component) Sign In Management
 Association (direction: Unspecified)	
Source: Public (Component) User Data management	Target: Public (Component) Sign Up Management
 Association (direction: Unspecified)	
Source: Public (Component) User Data management	Target: Public (Component) Search Management

User Database management

Component in package 'eTicketing - Component'

User Database management
Version 1.0 Phase 1.0 Proposed
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ASSOCIATIONS	
 Association (direction: Unspecified)	
Source: Public (Component) User Data management	Target: Public (Component) User Database management

eTicketing - Activity

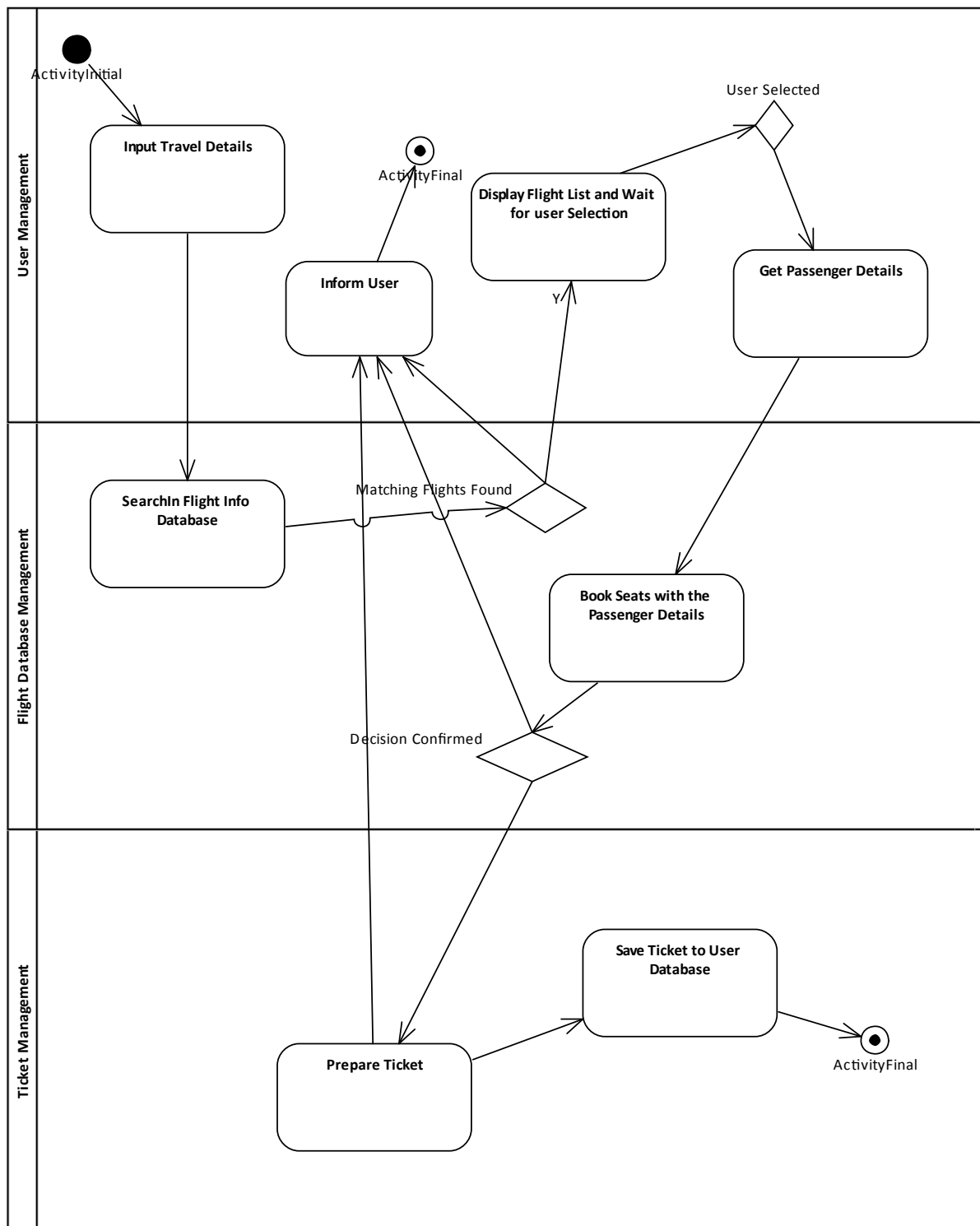
Package in package 'Model'

eTicketing - Activity
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eTicketing - Activity diagram

Activity diagram in package 'eTicketing - Activity'

eTicketing - Activity
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Figure 2: eTicketing - Activity

Text

Text in package 'eTicketing - UseCase'






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Text
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Extends

Flight Database Management

ActivityPartition in package 'eTicketing - Activity'



Flight Database Management
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ELEMENTS OWNED BY Flight Database Management
 Book Seats with the Passenger Details : Activity
 Ensure the Availability of Selected Flight : Activity
 SearchIn Flight Info Database : Activity
 Decision Confirmed : DecisionNode
 Matching Flights Found : DecisionNode

Book Seats with the Passenger Details

Activity owned by 'Flight Database Management', in package 'eTicketing - Activity'

Book Seats with the Passenger Details
Version 1.0 Phase 1.0 Proposed
uidn7735 created on 11/25/2017. Last modified 11/25/2017

OUTGOING BEHAVIORAL RELATIONSHIPS
 ControlFlow from Book Seats with the Passenger Details to Decision Confirmed
INCOMING BEHAVIORAL RELATIONSHIPS
 ControlFlow from Get Passenger Details to Book Seats with the Passenger Details

Ensure the Availability of Selected Flight

Activity owned by 'Flight Database Management', in package 'eTicketing - Activity'

Ensure the Availability of Selected Flight

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INCOMING BEHAVIORAL RELATIONSHIPS

ControlFlow from User Selected to Ensure the Availability of Selected Flight

SearchIn Flight Info Database

Activity owned by 'Flight Database Management', in package 'eTicketing - Activity'

SearchIn Flight Info Database

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OUTGOING BEHAVIORAL RELATIONSHIPS

ControlFlow from SearchIn Flight Info Database to Matching Flights Found

INCOMING BEHAVIORAL RELATIONSHIPS

ControlFlow from Input Travel Details to SearchIn Flight Info Database

Decision Confirmed

DecisionNode owned by 'Flight Database Management', in package 'eTicketing - Activity'

OUTGOING BEHAVIORAL RELATIONSHIPS

ControlFlow from Decision Confirmed to Inform User

ControlFlow from Decision Confirmed to Prepare Ticket

INCOMING BEHAVIORAL RELATIONSHIPS

ControlFlow from Book Seats with the Passenger Details to Decision Confirmed

Matching Flights Found

DecisionNode owned by 'Flight Database Management', in package 'eTicketing - Activity'

OUTGOING BEHAVIORAL RELATIONSHIPS

ControlFlow from Matching Flights Found to Inform User

Name: Y

ControlFlow from Matching Flights Found to Display Flight List and Wait for user Selection

INCOMING BEHAVIORAL RELATIONSHIPS

ControlFlow from SearchIn Flight Info Database to Matching Flights Found

Ticket Management

ActivityPartition in package 'eTicketing - Activity'

Ticket Management
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ELEMENTS OWNED BY Ticket Management

Prepare Ticket : Activity

Save Ticket to User Database : Activity

ActivityFinal : ActivityFinal

ActivityFinal : ActivityFinal

Prepare Ticket

Activity owned by 'Ticket Management', in package 'eTicketing - Activity'


Prepare Ticket
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OUTGOING BEHAVIORAL RELATIONSHIPS

ControlFlow from Prepare Ticket to Inform User

ControlFlow from Prepare Ticket to Save Ticket to User Database

INCOMING BEHAVIORAL RELATIONSHIPS

INCOMING BEHAVIORAL RELATIONSHIPS ControlFlow from Decision Confirmed to Prepare Ticket


Save Ticket to User Database

Activity owned by 'Ticket Management', in package 'eTicketing - Activity'

Save Ticket to User Database

Version 1.0 Phase 1.0 Proposed

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OUTGOING BEHAVIORAL RELATIONSHIPS ControlFlow from Save Ticket to User Database to ActivityFinal**INCOMING BEHAVIORAL RELATIONSHIPS** ControlFlow from Prepare Ticket to Save Ticket to User Database

ActivityFinal

ActivityFinal owned by 'Ticket Management', in package 'eTicketing - Activity'

ActivityFinal

ActivityFinal owned by 'Ticket Management', in package 'eTicketing - Activity'

INCOMING BEHAVIORAL RELATIONSHIPS ControlFlow from Save Ticket to User Database to ActivityFinal


User Management

ActivityPartition in package 'eTicketing - Activity'

User Management

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ELEMENTS OWNED BY User Management Display Flight List and Wait for user Selection : Activity Get Passenger Details : Activity

ELEMENTS OWNED BY User Management
 Inform User : Activity

 Input Travel Details : Activity

 User Selected : DecisionNode


 ActivityFinal : ActivityFinal

 ActivityInitial : ActivityInitial
Display Flight List and Wait for user Selection*Activity owned by 'User Management', in package 'eTicketing - Activity'*


Display Flight List and Wait for user Selection

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OUTGOING BEHAVIORAL RELATIONSHIPS
 ControlFlow from Display Flight List and Wait for user Selection to User Selected
INCOMING BEHAVIORAL RELATIONSHIPS


Name: Y

 ControlFlow from Matching Flights Found to Display Flight List and Wait for user Selection
Get Passenger Details*Activity owned by 'User Management', in package 'eTicketing - Activity'*

Get Passenger Details

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OUTGOING BEHAVIORAL RELATIONSHIPS
 ControlFlow from Get Passenger Details to Book Seats with the Passenger Details
INCOMING BEHAVIORAL RELATIONSHIPS
 ControlFlow from User Selected to Get Passenger Details

Inform User

Activity owned by 'User Management', in package 'eTicketing - Activity'

Inform User
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OUTGOING BEHAVIORAL RELATIONSHIPS

ControlFlow from Inform User to ActivityFinal

INCOMING BEHAVIORAL RELATIONSHIPS

ControlFlow from Matching Flights Found to Inform User

ControlFlow from Decision Confirmed to Inform User

ControlFlow from Prepare Ticket to Inform User

Input Travel Details

Activity owned by 'User Management', in package 'eTicketing - Activity'

Input Travel Details
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OUTGOING BEHAVIORAL RELATIONSHIPS

ControlFlow from Input Travel Details to SearchIn Flight Info Database

INCOMING BEHAVIORAL RELATIONSHIPS

ControlFlow from ActivityInitial to Input Travel Details

User Selected

DecisionNode owned by 'User Management', in package 'eTicketing - Activity'

OUTGOING BEHAVIORAL RELATIONSHIPS

ControlFlow from User Selected to Get Passenger Details

ControlFlow from User Selected to Ensure the Availability of Selected Flight

INCOMING BEHAVIORAL RELATIONSHIPS

⇒ ControlFlow from Display Flight List and Wait for user Selection to User Selected

ActivityFinal

ActivityFinal owned by 'User Management', in package 'eTicketing - Activity'

INCOMING BEHAVIORAL RELATIONSHIPS

⇒ ControlFlow from Inform User to ActivityFinal

ActivityInitial

ActivityInitial owned by 'User Management', in package 'eTicketing - Activity'

OUTGOING BEHAVIORAL RELATIONSHIPS

⇒ ControlFlow from ActivityInitial to Input Travel Details

eTicketing - ClassDiagram

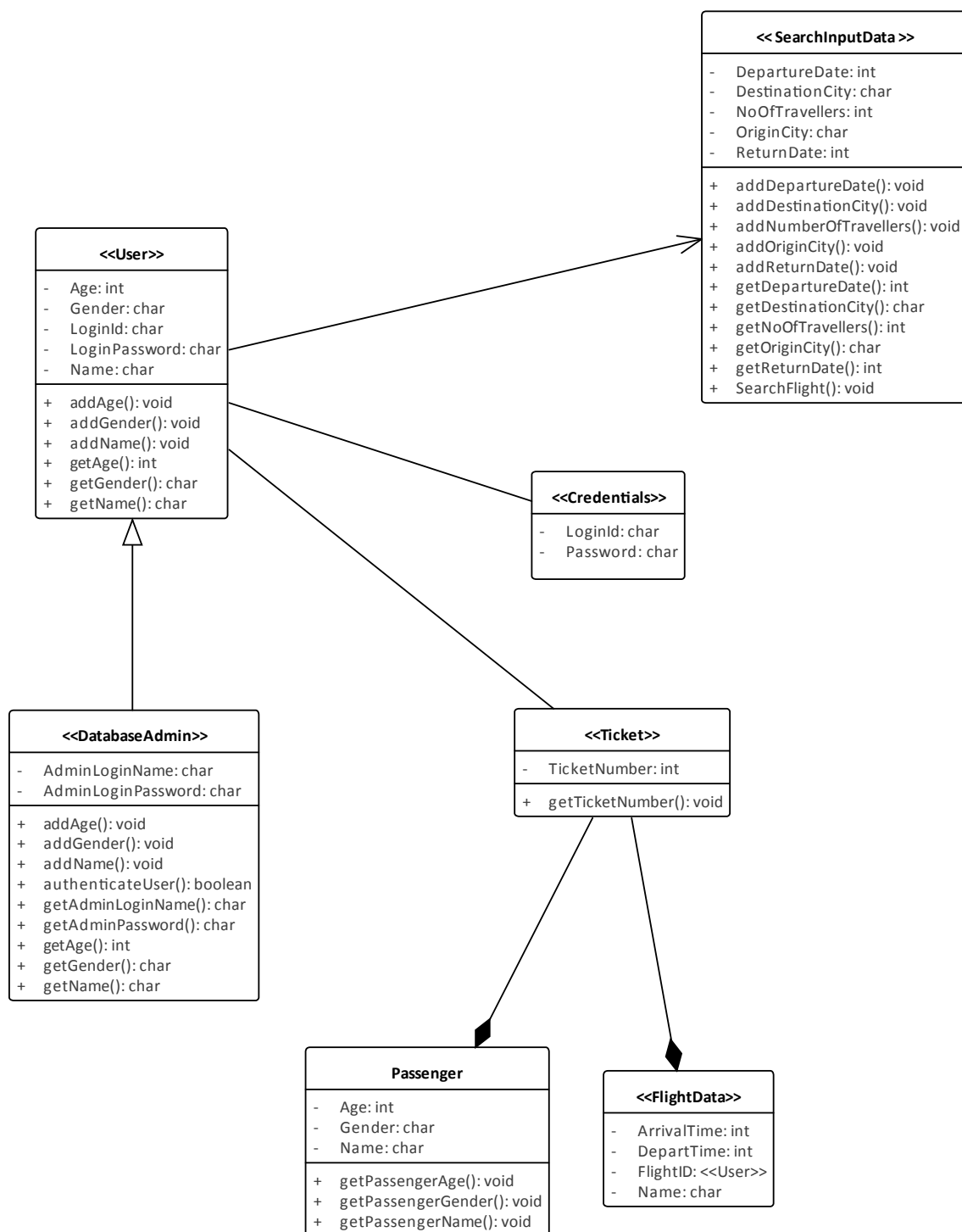
Package in package 'Model'

eTicketing - ClassDiagram
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eTicketing - ClassDiagram diagram

Class diagram in package 'eTicketing - ClassDiagram'

eTicketing - ClassDiagram
Version 1.0
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Figure 3: eTicketing - ClassDiagram

Text in package 'eTicketing - UseCase'









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Text
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Extends

<< SearchInputData >>

Class in package 'eTicketing - ClassDiagram'

<< SearchInputData >>
Version 1.0 Phase 1.0 Proposed
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ATTRIBUTES	
 DepartureDate : int Private	[Is static False. Containment is Not Specified.]
 DestinationCity : char Private	[Is static False. Containment is Not Specified.]
 NoOfTravellers : int Private	[Is static False. Containment is Not Specified.]
 OriginCity : char Private	[Is static False. Containment is Not Specified.]
 ReturnDate : int Private	[Is static False. Containment is Not Specified.]
ASSOCIATIONS	
 Association (direction: Source -> Destination) Source: Public (Class) <<User>> Target: Public (Class) << SearchInputData >>	
OPERATIONS	
 addDepartureDate () : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 addDestinationCity () : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

OPERATIONS	
 addNumberOfTravellers () : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 addOriginCity () : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 addReturnDate () : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 getDepartureDate () : int Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 getDestinationCity () : char Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 getNoOfTravellers () : int Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 getOriginCity () : char Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 getReturnDate () : int Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 SearchFlight () : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	



<<Credentials>>

Class in package 'eTicketing - ClassDiagram'

<<Credentials>>

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ATTRIBUTES	
 LoginId : char Private [Is static False. Containment is Not Specified.]	
 Password : char Private [Is static False. Containment is Not Specified.]	

ASSOCIATIONS

ASSOCIATIONS



Association (direction: Unspecified)

Source: Public (Class) <<User>>

Target: Public (Class) <<Credentials>>

<<DatabaseAdmin>>

Class in package 'eTicketing - ClassDiagram'

<<DatabaseAdmin>>

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Extends <<User>>

OUTGOING STRUCTURAL RELATIONSHIPS



Generalization from <<DatabaseAdmin>> to <<User>>

[Direction is 'Source -> Destination'.]

ATTRIBUTES



AdminLoginName : char Private

[Is static False. Containment is Not Specified.]



AdminLoginPassword : char Private

[Is static False. Containment is Not Specified.]

OPERATIONS



addAge () : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]



addGender () : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]



addName () : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]



authenticateUser () : boolean Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]



getAdminLoginName () : char Public




[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]



getAdminPassword () : char Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

OPERATIONS

 getAge () : int Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getGender () : char Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getName () : char Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

<<FlightData>>*Class in package 'eTicketing - ClassDiagram'*

<<FlightData>>

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INCOMING STRUCTURAL RELATIONSHIPS

 Aggregation from <<Ticket>> to <<FlightData>>	[Direction is 'Source -> Destination'.]
--	---

ATTRIBUTES

 ArrivalTime : int Private	[Is static False. Containment is Not Specified.]
 DepartTime : int Private	[Is static False. Containment is Not Specified.]
 FlightID : <<User>> Private	[Is static False. Containment is Not Specified.]
 Name : char Private	[Is static False. Containment is Not Specified.]


<<Ticket>>*Class in package 'eTicketing - ClassDiagram'*

<<Ticket>>


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OUTGOING STRUCTURAL RELATIONSHIPS

OUTGOING STRUCTURAL RELATIONSHIPS
 Aggregation from <<Ticket>> to <<FlightData>>

[Direction is 'Source -> Destination'.]

 Aggregation from <<Ticket>> to Passenger

[Direction is 'Source -> Destination'.]


ATTRIBUTES
 TicketNumber : int Private

[Is static False. Containment is Not Specified.]

ASSOCIATIONS
 Association (direction: Unspecified)

Source: Public (Class) <<User>>

Target: Public (Class) <<Ticket>>

OPERATIONS
 getTicketNumber () : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

<<User>>

Class in package 'eTicketing - ClassDiagram'


<<User>>

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INCOMING STRUCTURAL RELATIONSHIPS
 Generalization from <<DatabaseAdmin>> to <<User>>


[Direction is 'Source -> Destination'.]

ATTRIBUTES
 Age : int Private


[Is static False. Containment is Not Specified.]

 Gender : char Private


[Is static False. Containment is Not Specified.]

 LoginId : char Private

[Is static False. Containment is Not Specified.]

ATTRIBUTES
 LoginPassword : char Private

[Is static False. Containment is Not Specified.]

 Name : char Private

[Is static False. Containment is Not Specified.]

ASSOCIATIONS
 Association (direction: Source -> Destination)

Source: Public (Class) <<User>>

Target: Public (Class) <<SearchInputData >>

 Association (direction: Unspecified)


Source: Public (Class) <<User>>

Target: Public (Class) <<Credentials>>


 Association (direction: Unspecified)

Source: Public (Class) <<User>>


Target: Public (Class) <<Ticket>>

OPERATIONS
 addAge () : void Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 addGender () : void Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 addName () : void Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getAge () : int Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getGender () : char Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 getName () : char Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Passenger*Class in package 'eTicketing - ClassDiagram'*

Passenger
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INCOMING STRUCTURAL RELATIONSHIPS

⇒ Aggregation from <<Ticket>> to Passenger

[Direction is 'Source -> Destination'.]

ATTRIBUTES

◆ Age : int Private

[Is static False. Containment is Not Specified.]

◆ Gender : char Private

[Is static False. Containment is Not Specified.]

◆ Name : char Private

[Is static False. Containment is Not Specified.]

OPERATIONS

◆ getPassengerAge () : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ getPassengerGender () : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ getPassengerName () : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

eTicketing - Sequence

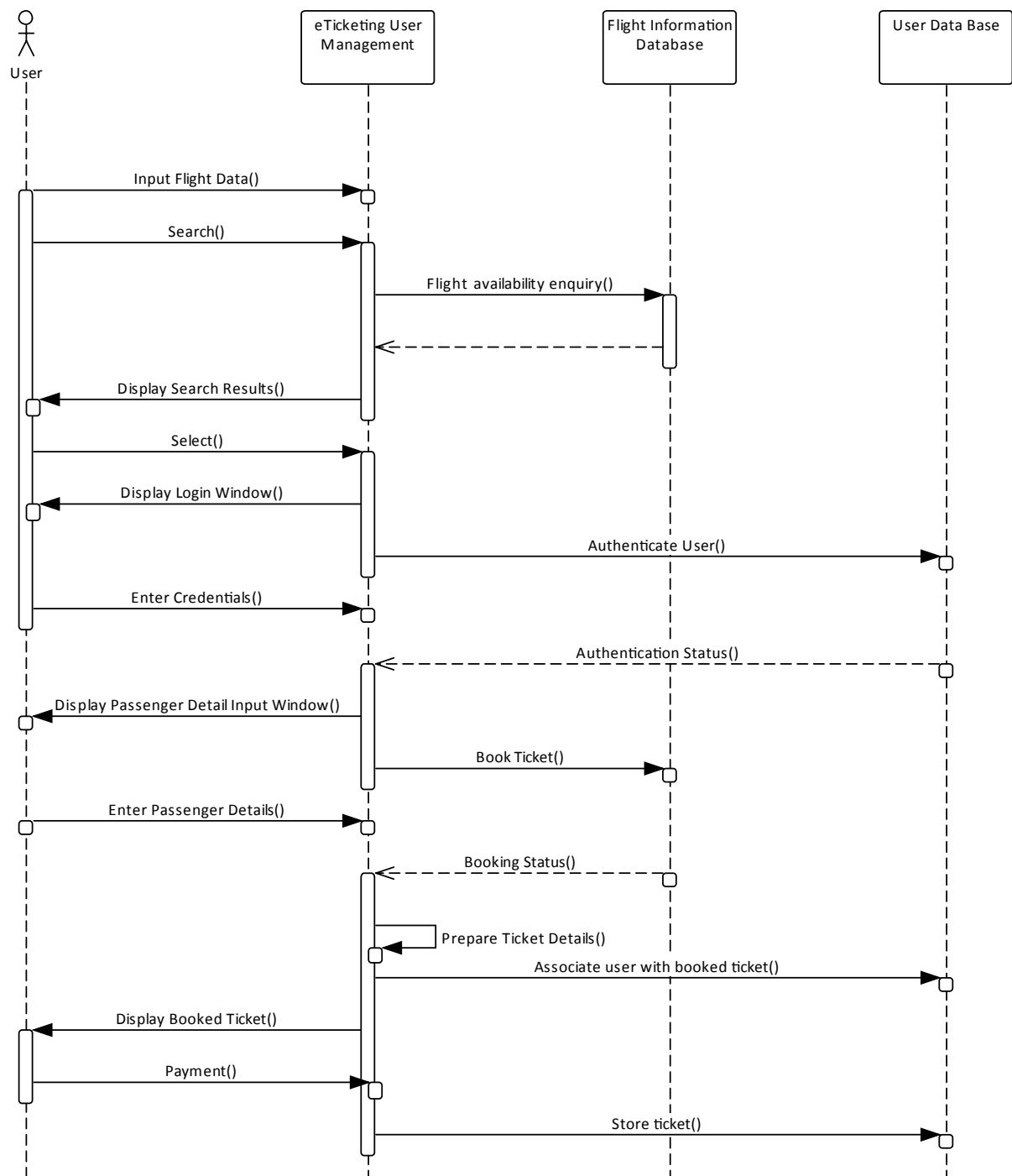
Package in package 'Model'

eTicketing - Sequence
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eTicketing - Sequence diagram

Interaction diagram in package 'eTicketing - Sequence'

eTicketing - Sequence
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Figure 4: eTicketing - Sequence

Text

Text in package 'eTicketing - UseCase'

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Text
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Extends

INTERACTION MESSAGES
<p>✉ 1.0 'Input Flight Data' from 'User' sent to 'eTicketing User Management'.</p> <p>Synchronous Call. Returns void.</p> <p>[Return is False. Iteration is False. New group is False.]</p>
<p>✉ 1.1 'Search' from 'User' sent to 'eTicketing User Management'.</p> <p>Synchronous Call. Returns void.</p> <p>[Return is False. Iteration is False. New group is False.]</p>
<p>✉ 1.2 'Flight availability enquiry' from 'eTicketing User Management' sent to 'Flight Information Database'.</p> <p>Synchronous Call. Returns void.</p> <p>[Return is False. Iteration is False. New group is False.]</p>
<p>✉ 1.3 '' from 'Flight Information Database' sent to 'eTicketing User Management'.</p> <p>Synchronous Call. Returns void.</p> <p>[Return is True. Iteration is False. New group is False.]</p>
<p>✉ 1.4 'Display Search Results' from 'eTicketing User Management' sent to 'User'.</p> <p>Synchronous Call. Returns void.</p> <p>[Return is False. Iteration is False. New group is False.]</p>
<p>✉ 1.5 'Select' from 'User' sent to 'eTicketing User Management'.</p> <p>Synchronous Call. Returns void.</p> <p>[Return is False. Iteration is False. New group is False.]</p>
<p>✉ 1.6 'Display Login Window' from 'eTicketing User Management' sent to 'User'.</p> <p>Synchronous Call. Returns void.</p> <p>[Return is False. Iteration is False. New group is False.]</p>

✉ **1.7 'Authenticate User'** from 'eTicketing User Management' sent to 'User Data Base'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

✉ **1.8 'Enter Credentials'** from 'User' sent to 'eTicketing User Management'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

✉ **1.9 'Authentication Status'** from 'User Data Base' sent to 'eTicketing User Management'.

Synchronous Call. Returns void.

[Return is True. Iteration is False. New group is False.]

✉ **1.10 'Display Passenger Detail Input Window'** from 'eTicketing User Management' sent to 'User'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

✉ **1.11 'Book Ticket'** from 'eTicketing User Management' sent to 'Flight Information Database'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

✉ **1.12 'Enter Passenger Details'** from 'User' sent to 'eTicketing User Management'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

✉ **1.13 'Booking Status'** from 'Flight Information Database' sent to 'eTicketing User Management'.

Synchronous Call. Returns void.

[Return is True. Iteration is False. New group is False.]

✉ **1.14 'Prepare Ticket Details'** from 'eTicketing User Management' sent to 'eTicketing User Management'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

✉ **1.15 'Associate user with booked ticket'** from 'eTicketing User Management' sent to 'User Data Base'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

✉ **1.16 'Display Booked Ticket'** from 'eTicketing User Management' sent to 'User'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

✉ **1.17 'Payment'** from 'User' sent to 'eTicketing User Management'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

✉ **1.18 'Store ticket'** from 'eTicketing User Management' sent to 'User Data Base'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

User

Actor in package 'eTicketing - Sequence'

User

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OUTGOING BEHAVIORAL RELATIONSHIPS

Name: Input Flight Data

Sequence from User to eTicketing User Management

Name: Enter Passenger Details

Sequence from User to eTicketing User Management

Name: Search

Sequence from User to eTicketing User Management

Name: Payment

Sequence from User to eTicketing User Management

Name: Select

Sequence from User to eTicketing User Management

Name: Enter Credentials

Sequence from User to eTicketing User Management

INCOMING BEHAVIORAL RELATIONSHIPS

Name: Display Login Window

Sequence from eTicketing User Management to User

Name: Display Passenger Detail Input Window

Sequence from eTicketing User Management to User

Name: Display Booked Ticket

INCOMING BEHAVIORAL RELATIONSHIPS

➡ Sequence from eTicketing User Management to User

Name: Display Search Results

➡ Sequence from eTicketing User Management to User

Flight Information Database

Sequence in package 'eTicketing - Sequence'

Flight Information Database

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OUTGOING BEHAVIORAL RELATIONSHIPS

⬅ Sequence from Flight Information Database to eTicketing User Management

Name: Booking Status

⬅ Sequence from Flight Information Database to eTicketing User Management

INCOMING BEHAVIORAL RELATIONSHIPS

Name: Flight availability enquiry

➡ Sequence from eTicketing User Management to Flight Information Database

Name: Book Ticket

➡ Sequence from eTicketing User Management to Flight Information Database

User Data Base

Sequence in package 'eTicketing - Sequence'

User Data Base

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OUTGOING BEHAVIORAL RELATIONSHIPS

Name: Authentication Status

⬅ Sequence from User Data Base to eTicketing User Management

INCOMING BEHAVIORAL RELATIONSHIPS

Name: Authenticate User

➡ Sequence from eTicketing User Management to User Data Base

INCOMING BEHAVIORAL RELATIONSHIPS

Name: Associate user with booked ticket

Sequence from eTicketing User Management to User Data Base

Name: Store ticket

Sequence from eTicketing User Management to User Data Base

eTicketing User Management*Sequence in package 'eTicketing - Sequence'*

eTicketing User Management

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OUTGOING BEHAVIORAL RELATIONSHIPS

Name: Display Login Window

Sequence from eTicketing User Management to User

Name: Authenticate User

Sequence from eTicketing User Management to User Data Base

Name: Flight availability enquiry

Sequence from eTicketing User Management to Flight Information Database

Name: Associate user with booked ticket

Sequence from eTicketing User Management to User Data Base

Name: Display Passenger Detail Input Window

Sequence from eTicketing User Management to User

Name: Book Ticket

Sequence from eTicketing User Management to Flight Information Database

Name: Display Booked Ticket

Sequence from eTicketing User Management to User

Name: Prepare Ticket Details

Sequence from eTicketing User Management to eTicketing User Management

Name: Display Search Results

Sequence from eTicketing User Management to User

Name: Store ticket

Sequence from eTicketing User Management to User Data Base

INCOMING BEHAVIORAL RELATIONSHIPS

➡ Sequence from Flight Information Database to eTicketing User Management

Name: Input Flight Data

➡ Sequence from User to eTicketing User Management

Name: Enter Passenger Details

➡ Sequence from User to eTicketing User Management

Name: Search

➡ Sequence from User to eTicketing User Management

Name: Payment

➡ Sequence from User to eTicketing User Management

Name: Select

➡ Sequence from User to eTicketing User Management

Name: Enter Credentials

➡ Sequence from User to eTicketing User Management

Name: Prepare Ticket Details

➡ Sequence from eTicketing User Management to eTicketing User Management

Name: Authentication Status

➡ Sequence from User Data Base to eTicketing User Management

Name: Booking Status

➡ Sequence from Flight Information Database to eTicketing User Management

eTicketing - State Chart

Package in package 'Model'

eTicketing - State Chart
Version 1.0 Phase 1.0 Proposed
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eTicketing - State Chart diagram

StateMachine diagram in package 'eTicketing - State Chart'

eTicketing - State Chart
Version 1.0
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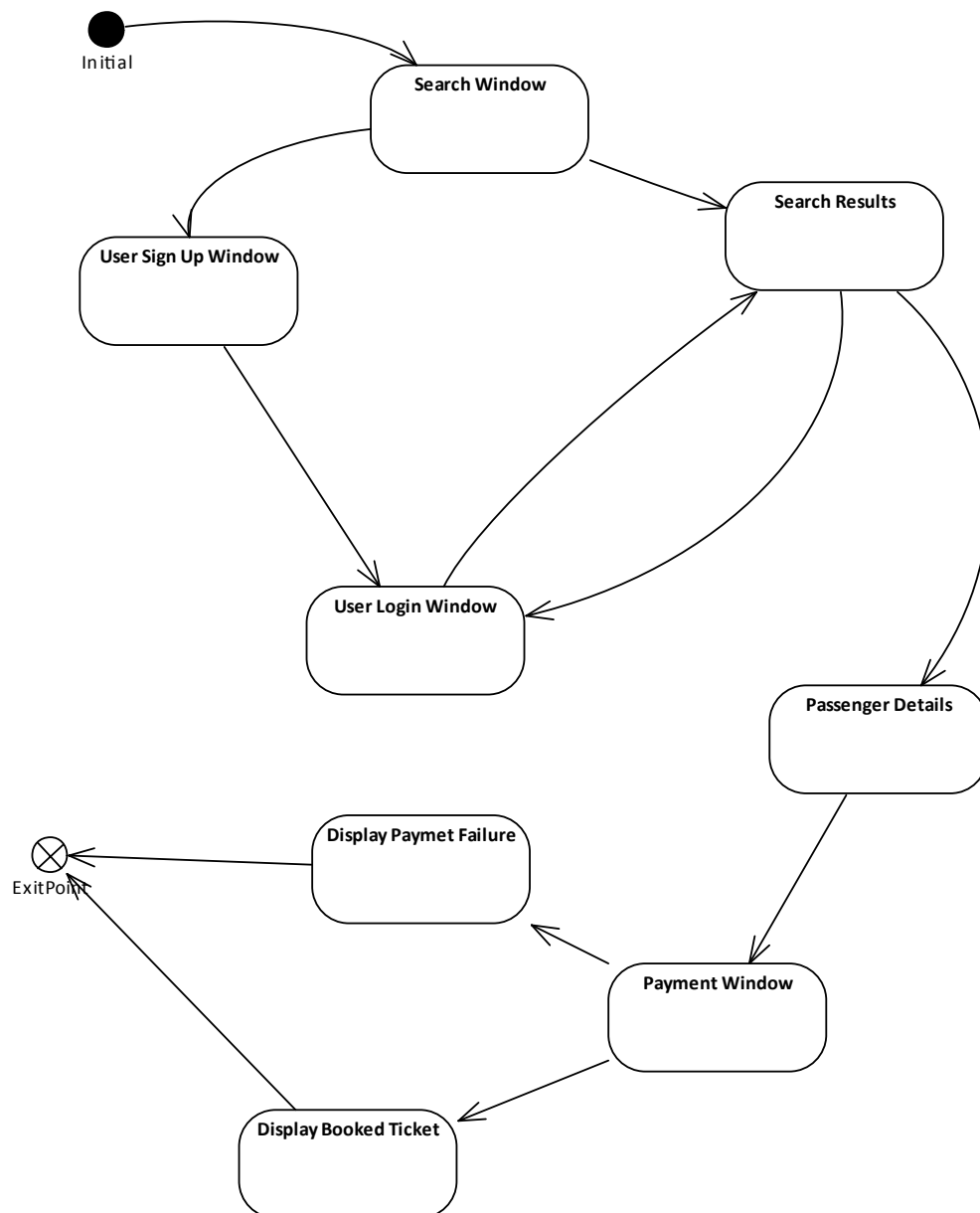


Figure 5: eTicketing - State Chart

Text

Text in package 'eTicketing - UseCase'

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Text
Version 1.0 Phase 1.0 Proposed
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Extends

Display Booked Ticket

State in package 'eTicketing - State Chart'

Display Booked Ticket
Version 1.0 Phase 1.0 Proposed
uidn7735 created on 11/25/2017. Last modified 11/25/2017

OUTGOING BEHAVIORAL RELATIONSHIPS

◀ Transition from Display Booked Ticket to ExitPoint

INCOMING BEHAVIORAL RELATIONSHIPS

▶ Transition from Payment Window to Display Booked Ticket

Display Paymet Failure

State in package 'eTicketing - State Chart'

Display Paymet Failure
Version 1.0 Phase 1.0 Proposed
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OUTGOING BEHAVIORAL RELATIONSHIPS

◀ Transition from Display Paymet Failure to ExitPoint

INCOMING BEHAVIORAL RELATIONSHIPS

▶ Transition from Payment Window to Display Paymet Failure

Passenger Details

State in package 'eTicketing - State Chart'

Passenger Details
Version 1.0 Phase 1.0 Proposed
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OUTGOING BEHAVIORAL RELATIONSHIPS

↩ Transition from Passenger Details to Payment Window

INCOMING BEHAVIORAL RELATIONSHIPS

⇒ Transition from Search Results to Passenger Details

Payment Window

State in package 'eTicketing - State Chart'

Payment Window
Version 1.0 Phase 1.0 Proposed
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OUTGOING BEHAVIORAL RELATIONSHIPS

↩ Transition from Payment Window to Display Booked Ticket

↩ Transition from Payment Window to Display Paymet Failure

INCOMING BEHAVIORAL RELATIONSHIPS

⇒ Transition from Passenger Details to Payment Window

Search Results


State in package 'eTicketing - State Chart'

Search Results
Version 1.0 Phase 1.0 Proposed
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OUTGOING BEHAVIORAL RELATIONSHIPS

↩ Transition from Search Results to User Login Window


↩ Transition from Search Results to Passenger Details

INCOMING BEHAVIORAL RELATIONSHIPS Transition from User Login Window to Search Results Transition from Search Window to Search Results

Search Window

State in package 'eTicketing - State Chart'



Search Window
Version 1.0 Phase 1.0 Proposed
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OUTGOING BEHAVIORAL RELATIONSHIPS Transition from Search Window to Search Results Transition from Search Window to User Sign Up Window**INCOMING BEHAVIORAL RELATIONSHIPS** Transition from Initial to Search Window

User Login Window

State in package 'eTicketing - State Chart'

User Login Window
Version 1.0 Phase 1.0 Proposed
uidn7735 created on 11/25/2017. Last modified 11/25/2017

OUTGOING BEHAVIORAL RELATIONSHIPS Transition from User Login Window to Search Results**INCOMING BEHAVIORAL RELATIONSHIPS** Transition from User Sign Up Window to User Login Window Transition from Search Results to User Login Window

User Sign Up Window

State in package 'eTicketing - State Chart'

User Sign Up Window
Version 1.0 Phase 1.0 Proposed
uidn7735 created on 11/25/2017. Last modified 11/25/2017

OUTGOING BEHAVIORAL RELATIONSHIPS

↩:: Transition from User Sign Up Window to User Login Window

INCOMING BEHAVIORAL RELATIONSHIPS

⇒ Transition from Search Window to User Sign Up Window

ExitPoint

ExitPoint in package 'eTicketing - State Chart'

INCOMING BEHAVIORAL RELATIONSHIPS

⇒ Transition from Display Paymet Failure to ExitPoint

⇒ Transition from Display Booked Ticket to ExitPoint

Initial

Initial State in package 'eTicketing - State Chart'

OUTGOING BEHAVIORAL RELATIONSHIPS

↩:: Transition from Initial to Search Window

eTicketing - UseCase

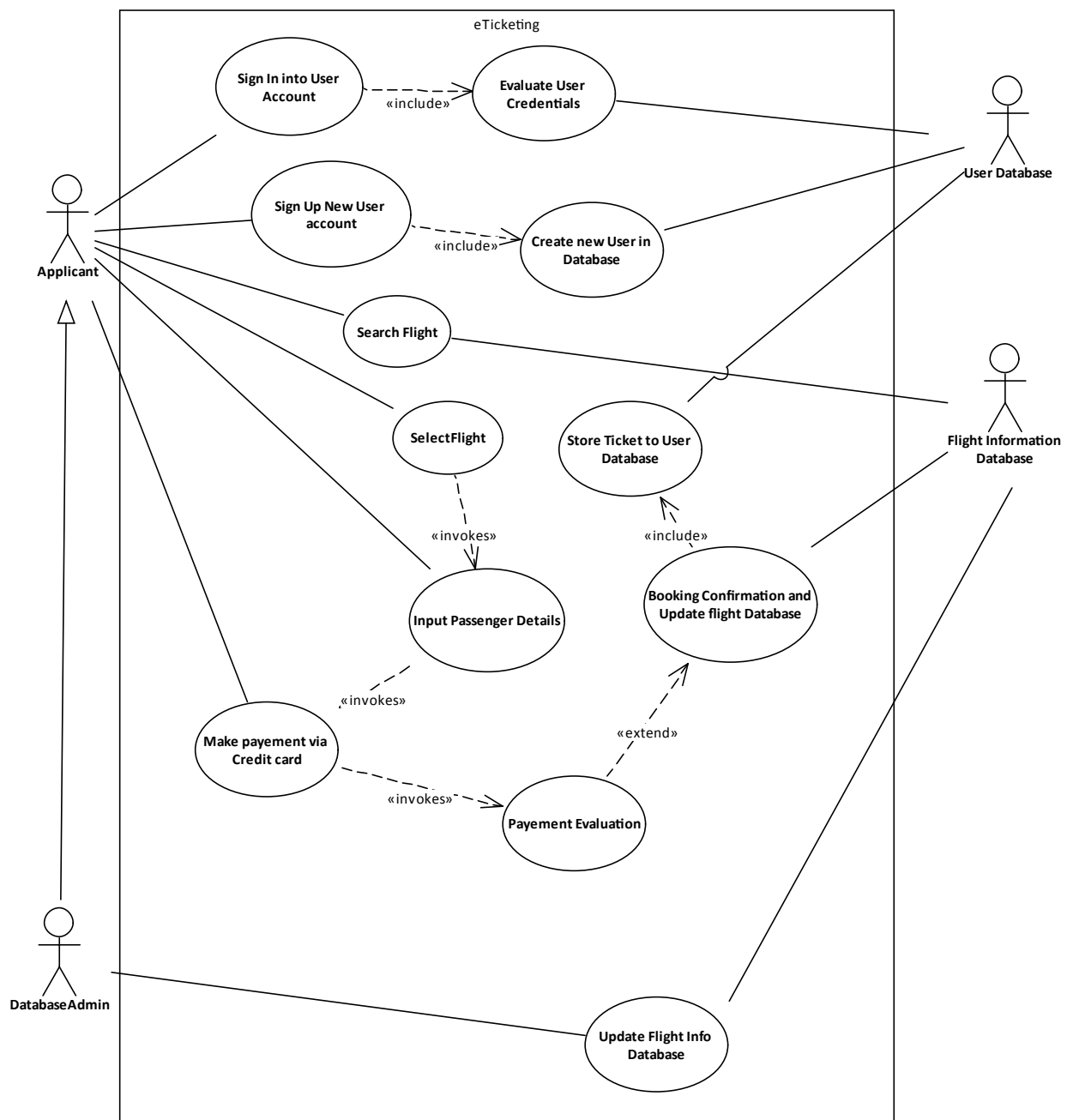
Package in package 'Model'

eTicketing - UseCase
Version 1.0 Phase 1.0 Proposed
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eTicketing - UseCase Diagram diagram

Use Case diagram in package 'eTicketing - UseCase'

eTicketing - UseCase Diagram
Version 1.0
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Figure 6: eTicketing - UseCase Diagram

eTicketing

Boundary in package 'eTicketing - UseCase'

eTicketing
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Extends

Text

Text in package 'eTicketing - UseCase'

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Text
Version 1.0 Phase 1.0 Proposed
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Extends

Applicant

Actor in package 'eTicketing - UseCase'

Applicant
Version 1.0 Phase 1.0 Proposed
uidn7735 created on 11/25/2017. Last modified 11/25/2017

INCOMING STRUCTURAL RELATIONSHIPS

⇒ Generalization from DatabaseAdmin to Applicant

[Direction is 'Source -> Destination'.]

ASSOCIATIONS

 Association (direction: Unspecified)

Source: Public (Actor) Applicant

Target: Public (UseCase) SelectFlight

 Association (direction: Unspecified)

Source: Public (Actor) Applicant

Target: Public (UseCase) Search Flight

 Association (direction: Unspecified)

Source: Public (Actor) Applicant

Target: Public (UseCase) Input Passenger Details

 Association (direction: Unspecified)

Source: Public (Actor) Applicant

Target: Public (UseCase) Make payment via
Credit card

 Association (direction: Unspecified)

Source: Public (Actor) Applicant

Target: Public (UseCase) Sign In into User Account

ASSOCIATIONS
 Association (direction: Unspecified)

Source: Public (Actor) Applicant

Target: Public (UseCase) Sign Up New User account

DatabaseAdmin*Actor in package 'eTicketing - UseCase'*

DatabaseAdmin

Version 1.0 Phase 1.0 Proposed

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OUTGOING STRUCTURAL RELATIONSHIPS
 Generalization from DatabaseAdmin to Applicant

[Direction is 'Source -> Destination'.]

ASSOCIATIONS
 Association (direction: Unspecified)

Source: Public (Actor) DatabaseAdmin

Target: Public (UseCase) Update Flight Info Database

Flight Information Database*Actor in package 'eTicketing - UseCase'*

Flight Information Database

Version 1.0 Phase 1.0 Proposed

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ASSOCIATIONS
 Association (direction: Unspecified)

Source: Public (UseCase) Update Flight Info Database

Target: Public (Actor) Flight Information Database

 Association (direction: Unspecified)

Source: Public (UseCase) Booking Confirmation and Update flight Database

Target: Public (Actor) Flight Information Database

 Association (direction: Unspecified)




Source: Public (UseCase) Search Flight

Target: Public (Actor) Flight Information Database

User Database

Actor in package 'eTicketing - UseCase'



User Database
Version 1.0 Phase 1.0 Proposed
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ASSOCIATIONS	
 Association (direction: Unspecified)	
Source: Public (UseCase) Create new User in Database	Target: Public (Actor) User Database
 Association (direction: Unspecified)	
Source: Public (UseCase) Evaluate User Credentials	Target: Public (Actor) User Database
 Association (direction: Unspecified)	
Source: Public (UseCase) Store Ticket to User Database	Target: Public (Actor) User Database

Booking Confirmation and Update flight Database

UseCase in package 'eTicketing - UseCase'

Booking Confirmation and Update flight Database
Version 1.0 Phase 1.0 Proposed
uidn7735 created on 11/25/2017. Last modified 11/25/2017

CONNECTORS	
 Include «include» Source -> Destination	
From: Booking Confirmation and Update flight Database : UseCase, Public	
To: Store Ticket to User Database : UseCase, Public	
 Extend «extend» Source -> Destination	
From: Payment Evaluation : UseCase, Public	
To: Booking Confirmation and Update flight Database : UseCase, Public	


ASSOCIATIONS	
 Association (direction: Unspecified)	
Source: Public (UseCase) Booking Confirmation and Update flight Database	Target: Public (Actor) Flight Information Database

Create new User in Database

UseCase in package 'eTicketing - UseCase'

Create new User in Database
 Version 1.0 Phase 1.0 Proposed
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CONNECTORS

 **Include** «include» Source -> Destination
 From: Sign Up New User account : UseCase, Public
 To: Create new User in Database : UseCase, Public

ASSOCIATIONS

 Association (direction: Unspecified)


Source: Public (UseCase) Create new User in Database

Target: Public (Actor) User Database

Evaluate User Credentials*UseCase in package 'eTicketing - UseCase'*

Evaluate User Credentials
 Version 1.0 Phase 1.0 Proposed
 uidn7735 created on 11/25/2017. Last modified 11/25/2017

CONNECTORS

 **Include** «include» Source -> Destination
 From: Sign In into User Account : UseCase, Public
 To: Evaluate User Credentials : UseCase, Public

ASSOCIATIONS

 Association (direction: Unspecified)


Source: Public (UseCase) Evaluate User Credentials

Target: Public (Actor) User Database


Input Passenger Details*UseCase in package 'eTicketing - UseCase'*

Input Passenger Details
 Version 1.0 Phase 1.0 Proposed
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CONNECTORS

 **Dependency** «invokes» Source -> Destination
 From: Input Passenger Details : UseCase, Public
 To: Make payment via Credit card : UseCase, Public

CONNECTORS

 **Dependency** «invokes» Source -> Destination
 From: SelectFlight : UseCase, Public
 To: Input Passenger Details : UseCase, Public

ASSOCIATIONS

 Association (direction: Unspecified)

Source: Public (Actor) Applicant

Target: Public (UseCase) Input Passenger Details

Make payment via Credit card


UseCase in package 'eTicketing - UseCase'


Make payment via Credit card

Version 1.0 Phase 1.0 Proposed

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CONNECTORS

 **Dependency** «invokes» Source -> Destination
 From: Make payment via Credit card : UseCase, Public
 To: Payment Evaluation : UseCase, Public

 **Dependency** «invokes» Source -> Destination
 From: Input Passenger Details : UseCase, Public
 To: Make payment via Credit card : UseCase, Public

ASSOCIATIONS

 Association (direction: Unspecified)

Source: Public (Actor) Applicant

Target: Public (UseCase) Make payment via Credit card

Payment Evaluation


UseCase in package 'eTicketing - UseCase'

Payment Evaluation


Version 1.0 Phase 1.0 Proposed

uidn7735 created on 11/25/2017. Last modified 11/25/2017

CONNECTORS

 **Extend** «extend» Source -> Destination
 From: Payment Evaluation : UseCase, Public
 To: Booking Confirmation and Update flight Database : UseCase, Public

CONNECTORS

 **Dependency** «invokes» Source -> Destination
 From: Make payment via Credit card : UseCase, Public
 To: Payment Evaluation : UseCase, Public

Search Flight

UseCase in package 'eTicketing - UseCase'

Search Flight
 Version 1.0 Phase 1.0 Proposed
 uidn7735 created on 11/25/2017. Last modified 11/25/2017

ASSOCIATIONS

 Association (direction: Unspecified)

Source: Public (UseCase) Search Flight

Target: Public (Actor) Flight Information Database

 Association (direction: Unspecified)

Source: Public (Actor) Applicant


Target: Public (UseCase) Search Flight

SelectFlight

UseCase in package 'eTicketing - UseCase'

SelectFlight
 Version 1.0 Phase 1.0 Proposed
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CONNECTORS

 **Dependency** «invokes» Source -> Destination
 From: SelectFlight : UseCase, Public
 To: Input Passenger Details : UseCase, Public

ASSOCIATIONS

 Association (direction: Unspecified)

Source: Public (Actor) Applicant

Target: Public (UseCase) SelectFlight


Sign In into User Account

UseCase in package 'eTicketing - UseCase'

Sign In into User Account

Version 1.0 Phase 1.0 Proposed
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CONNECTORS

 **Include** «include» Source -> Destination
From: Sign In into User Account : UseCase, Public
To: Evaluate User Credentials : UseCase, Public

ASSOCIATIONS

 Association (direction: Unspecified)

Source: Public (Actor) Applicant


Target: Public (UseCase) Sign In into User Account

Sign Up New User account

UseCase in package 'eTicketing - UseCase'

Sign Up New User account
Version 1.0 Phase 1.0 Proposed
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CONNECTORS

 **Include** «include» Source -> Destination
From: Sign Up New User account : UseCase, Public
To: Create new User in Database : UseCase, Public

ASSOCIATIONS

 Association (direction: Unspecified)

Source: Public (Actor) Applicant


Target: Public (UseCase) Sign Up New User account

Store Ticket to User Database

UseCase in package 'eTicketing - UseCase'

Store Ticket to User Database
Version 1.0 Phase 1.0 Proposed
uidn7735 created on 11/25/2017. Last modified 11/25/2017

CONNECTORS

 **Include** «include» Source -> Destination
From: Booking Confirmation and Update flight Database : UseCase, Public
To: Store Ticket to User Database : UseCase, Public

ASSOCIATIONS Association (direction: Unspecified)

Source: Public (UseCase) Store Ticket to User Database

Target: Public (Actor) User Database

Update Flight Info Database

UseCase in package 'eTicketing - UseCase'

Update Flight Info Database
Version 1.0 Phase 1.0 Proposed
uidn7735 created on 11/25/2017. Last modified 11/25/2017

ASSOCIATIONS Association (direction: Unspecified)

Source: Public (UseCase) Update Flight Info Database

Target: Public (Actor) Flight Information Database

 Association (direction: Unspecified)

Source: Public (Actor) DatabaseAdmin

Target: Public (UseCase) Update Flight Info Database