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# Software Requirement Analysis On Tour Guide

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## 1 User Case Diagram

Use case diagram comprises actors and use cases, where actors perform several cases or one. This also shows which actors have access to which use case. Here is the use case diagram for house management system.

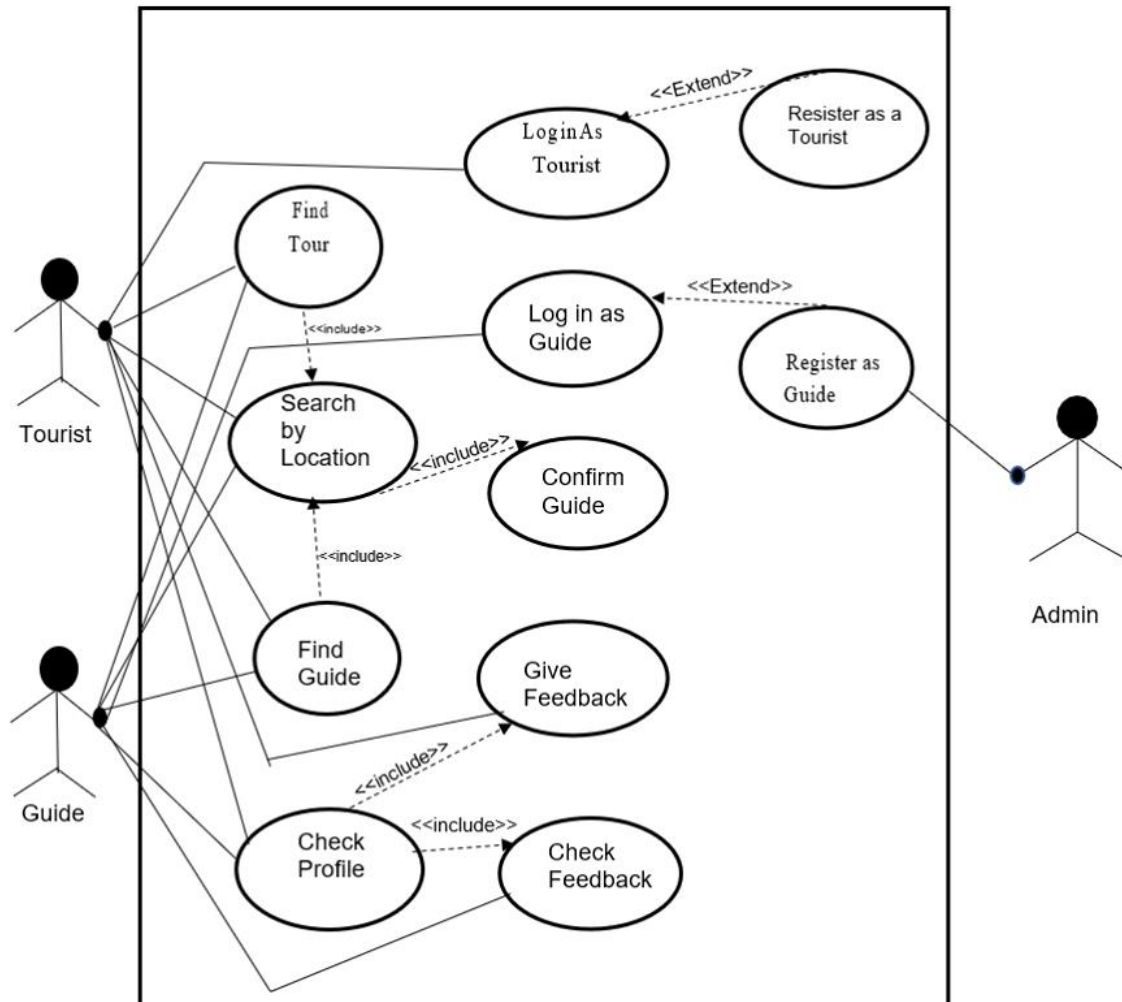


Figure 1. 1 Use Case Diagram

## 2 Use Case Description

All use cases from use case diagram are explained here.

**Table 2. 1 Find Tour**

<b>Use case</b>	Find tour	
<b>Goal</b>	Tourist can find tour place successfully.	
<b>Precondition</b>	Search place name.	
<b>Success End Condition</b>	Show all details(picture ,blog, sort guide profile ) about searching place.	
<b>Failed End Condition</b>	No places available.	
<b>Primary Actor</b>	Tourist, Guide	
<b>Secondary Actor</b>	N/A	
<b>Trigger</b>	Press Search button or Select dropdown (Category, division).	
<b>Main Success Flow</b>	<b>Step</b>	<b>Action</b>
	1	Tourist/guide Search places using ‘Search box’
<b>Alternative Flow</b>	<b>Step</b>	<b>Action</b>
	<b>1(a)</b>	Tourist /guide Search place using ‘Category wise’
	<b>1(b)</b>	Tourist /guide Search place using ‘Division wise’
<b>Quality Requirements</b>	<b>Step</b>	<b>Action</b>
		Tourist/guide should find places within 5 seconds

**Table 2.2 Search by Location**

<b>Use case</b>	Search by Location	
<b>Goal</b>	Successfully search a location	
<b>Precondition</b>	Not applicable	
<b>Success End Condition</b>	Places found as searched via search box .	
<b>Failed End Condition</b>	Place not found	
<b>Primary Actor</b>	Tourist, Find Guide.	
<b>Secondary Actor</b>	System	
<b>Trigger</b>	Write in the search box and press search button .	
<b>Main Success Flow</b>	<b>Step</b>	<b>Action</b>
	1	Tourist/guide Search places using 'Search box'
<b>Alternative Flow</b>	<b>Step</b>	<b>Action</b>
		N/A
<b>Quality Requirements</b>	<b>Step</b>	<b>Action</b>
		Tourist/ guide should find places within 5 seconds

Table 2.3 Find Guide

<b>Use case</b>	Find Guide	
<b>Goal</b>	Tourist can find Local guide successfully.	
<b>Precondition</b>	Have to be logged in.	
<b>Success End Condition</b>	Fine guide Successfully.	
<b>Failed End Condition</b>	No guide available.	
<b>Primary Actor</b>	Tourist	
<b>Secondary Actor</b>	Guide	
<b>Trigger</b>	Press Search button	
<b>Main Success Flow</b>	<b>Step</b>	<b>Action</b>
	1	Using 'Search Box' search by location to get nearby guides
	2	Select the guide of your interest from several guides.
<b>Alternative Flow</b>	<b>Step</b>	<b>Action</b>
		N/A
<b>Quality Requirements</b>	<b>Step</b>	<b>Action</b>
	3	Search result should come within 5 seconds

**Table 2.4 Login Tourist**

<b>Use case</b>	Login Tourist	
<b>Goal</b>	Successfully log into the system as tourist.	
<b>Precondition</b>	Must register previously in the system as tourist.	
<b>Success End Condition</b>	User log in to the system as tourist	
<b>Failed End Condition</b>	User failed to log in as tourist.Back to log in page	
<b>Primary Actor</b>	Tourist	
<b>Secondary Actor</b>	System	
<b>Trigger</b>	Press login button	
<b>Main Success Flow</b>	<b>Step</b>	<b>Action</b>
	1	Go to the login page clicking 'Tourist Login' button
	2	Enter Username and password as the login information
	2	Click 'log in' to log in the system .
<b>Alternative Flow</b>	<b>Step</b>	<b>Action</b>
		N/A
<b>Quality Requirements</b>	<b>Step</b>	<b>Action</b>
	3	N/A



Table 2.5 Login as Guide

<b>Use case</b>	Login as Guide	
<b>Goal</b>	Successfully log into the system as guide.	
<b>Precondition</b>	Must register previously in the system as guide.	
<b>Success End Condition</b>	User log in to the system as guide	
<b>Failed End Condition</b>	User failed to log in to the system as guide.	
<b>Primary Actor</b>	Guide	
<b>Secondary Actor</b>	System	
<b>Trigger</b>	Press log in button	
<b>Main Success Flow</b>	<b>Step</b>	<b>Action</b>
	1	Go to the login page clicking 'Guide Login' button
	2	Enter Username and password as the login information
	3	Click 'log in' to log in the system .
<b>Alternative Flow</b>	<b>Step</b>	<b>Action</b>
		N/A
<b>Quality Requirements</b>	<b>Step</b>	<b>Action</b>
	3	N/A

Table 2.6 Check Profile

<b>Use case</b>	Check Profile	
<b>Goal</b>	Tourist/Guide can check their profile .	
<b>Precondition</b>	Must be logged in the system	
<b>Success End Condition</b>	User can see their profile and update info	
<b>Failed End Condition</b>	N/A	
<b>Primary Actor</b>	Tourist, Guide	
<b>Secondary Actor</b>	N/A	
<b>Trigger</b>	Click on the 'Profile' button .	
<b>Main Success Flow</b>	<b>Step</b>	<b>Action</b>
	1	From the front page click 'Profile' button
	2	User can update info clicking 'Update Info' , check feedback clicking 'Check feedback' if guide and give feedback clicking 'Give Feedback' if tourist and can check tour history clicking 'Tour History'.
	3	In the update info user can update billing info clicking 'Update Billing Info' or can update other info clicking 'Update Other Info'
<b>Alternative Flow</b>	<b>Step</b>	<b>Action</b>
		N/A
<b>Quality Requirements</b>	<b>Step</b>	<b>Action</b>
		N/A

**Table 2.7 Tourist Registration**

<b>Use case</b>	Tourist Registration	
<b>Goal</b>	Tourist successfully register in to the system	
<b>Precondition</b>	Not applicable	
<b>Success End Condition</b>	New tourist registered in the system	
<b>Failed End Condition</b>	Failed to register.	
<b>Primary Actor</b>	Tourist	
<b>Secondary Actor</b>	N/A	
<b>Trigger</b>	Click on 'Register' button	
<b>Main Success Flow</b>	<b>Step</b>	<b>Action</b>
	1	Go to registration page
	2	Enter tourist information and click register .
	3	Verify email with confirmation code sent to email
<b>Alternative Flow</b>	<b>Step</b>	<b>Action</b>
		N/A
<b>Quality Requirements</b>	<b>Step</b>	<b>Action</b>
	1	Confirmation code should sent within 10 seconds .

Table 2.8 Guide Registration

<b>Use case</b>	Guide Registration	
<b>Goal</b>	Guide successfully register in to the system	
<b>Precondition</b>	Not applicable	
<b>Success End Condition</b>	New guide registered in the system	
<b>Failed End Condition</b>	Rejected in 1 <sup>st</sup> verification or 2 <sup>nd</sup> verification .	
<b>Primary Actor</b>	Guide	
<b>Secondary Actor</b>	Admin	
<b>Trigger</b>	Click on 'Register' button	
<b>Main Success Flow</b>	<b>Step</b>	<b>Action</b>
	1	Go to registration page
	1.1	Enter guide information and click Verify Information
	2	If passed the 1 <sup>st</sup> verification provide documents and click verify documents
	3	If passed the 2 <sup>nd</sup> verification that is registered guide .
<b>Alternative Flow</b>	<b>Step</b>	<b>Action</b>
		N/A
<b>Quality Requirements</b>	<b>Step</b>	<b>Action</b>
	3	Each Verification should be done within 7 days

Table 2.9 Give Feedback

<b>Use case</b>	Give Feedback	
<b>Goal</b>	Give feedback to specific guide with whom tour made	
<b>Precondition</b>	Tour must be done	
<b>Success End Condition</b>	Successfully feedback to the guide	
<b>Failed End Condition</b>	Failed to give feedback	
<b>Primary Actor</b>	Tourist	
<b>Secondary Actor</b>	N/A	
<b>Trigger</b>	Clicking on 'Give Feedback' button	
<b>Main Success Flow</b>	<b>Step</b>	<b>Action</b>
	1	Go to tourist profile clicking on 'Profile'
	2	Go to give feedback clicking on 'Give feedback'
	3	Check the guides with whom you made tour and write a feedback
	4	Click on the 'Give Feedback' and feedback submitted
<b>Alternative Flow</b>	<b>Step</b>	<b>Action</b>
		N/A
<b>Quality Requirements</b>	<b>Step</b>	<b>Action</b>
	1	N/a

**Table 2.10 Check Feedback**

<b>Use case</b>	Check feedback	
<b>Goal</b>	Check the feedback issued by tourist with whom tour made	
<b>Precondition</b>	Must made tour with tourists	
<b>Success End Condition</b>	Check the feedback and find flaws and get appreciation .	
<b>Failed End Condition</b>	Failed to check the feedback	
<b>Primary Actor</b>	Guide	
<b>Secondary Actor</b>	N/A	
<b>Trigger</b>	Click 'check Feedback' to check the feedback	
<b>Main Success Flow</b>	<b>Step</b>	<b>Action</b>
	1	Go to guide profile clicking on 'Profile'
	2	Go to check feedback clicking on 'Check feedback'
	3	Check the tourists feedback that is issued by them one by one
<b>Alternative Flow</b>	<b>Step</b>	<b>Action</b>
		N/A
<b>Quality Requirements</b>	<b>Step</b>	<b>Action</b>
	3	N/A

Table 2.11 Confirm Guide

<b>Use case</b>	Confirm Guide	
<b>Goal</b>	Booking a guide for having the tour	
<b>Precondition</b>	Must be logged in	
<b>Success End Condition</b>	Successfully confirm the guide	
<b>Failed End Condition</b>	Failed to confirm	
<b>Primary Actor</b>	Tourist	
<b>Secondary Actor</b>	System	
<b>Trigger</b>	Click on ‘confirm guide’ to confirm the guide .	
<b>Main Success Flow</b>	<b>Step</b>	<b>Action</b>
	1	Go to Guide profile by finding guide use case and click on ‘Confirm guide’
	2	System Checks availability of the guide. If not available go for another guide.
	3	Provide Billing information of credit card
	4	Pay 20% of the total amount
<b>Alternative Flow</b>	<b>Step</b>	<b>Action</b>
		N/A
<b>Quality Requirements</b>	<b>Step</b>	<b>Action</b>
	1	N/A

### 3 Activity Diagram

An activity diagram is a graphical representation of an executed set of procedural system activities and considered a state chart diagram variation. Activity diagrams describe parallel and conditional activities, use cases and system functions at a detailed level. Activity diagram for house rental management system are given below.

#### 3.1 Register As Tourist

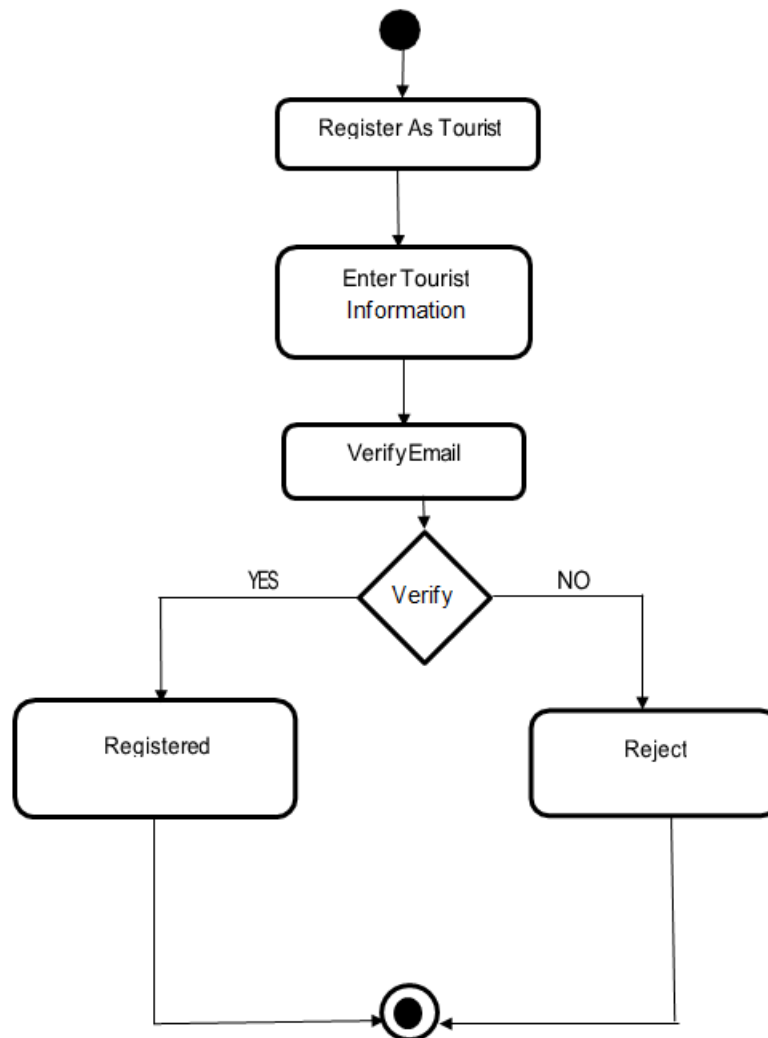


Figure 3.1 Register as Tourist



### 3.2 Register As Guide

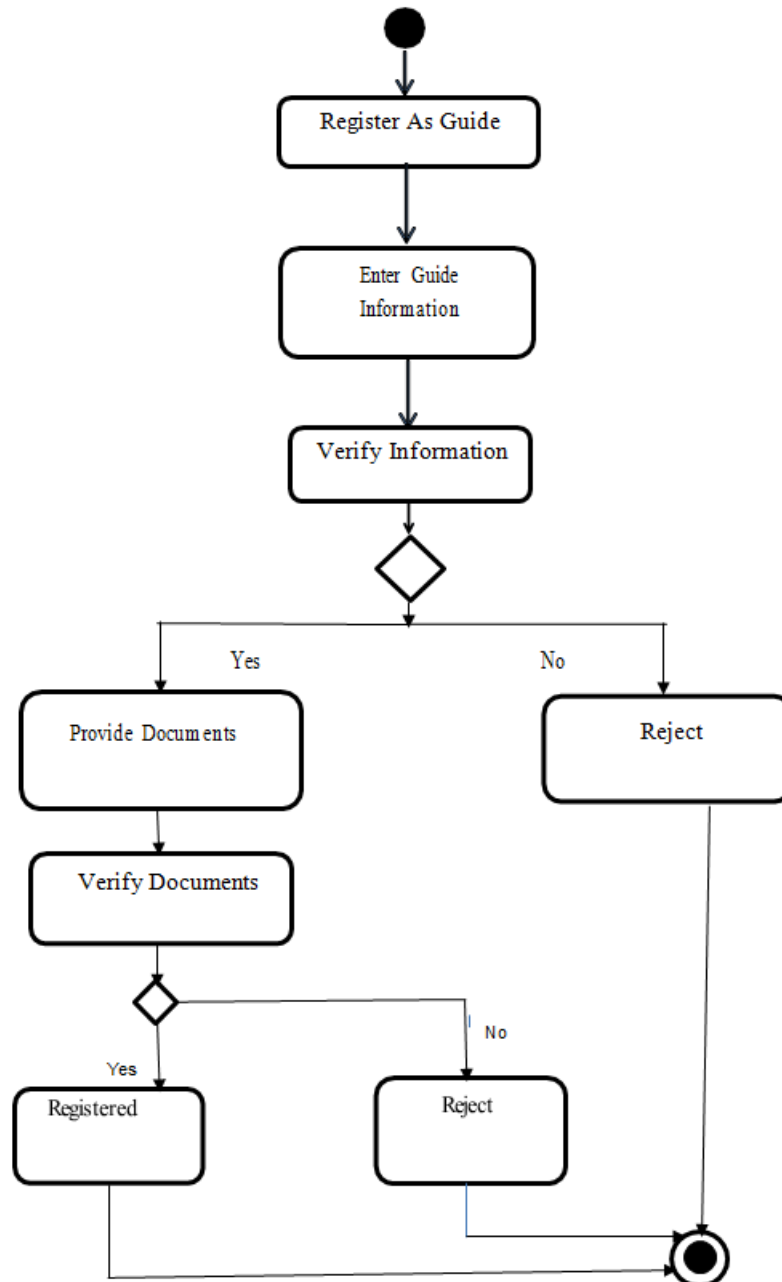


Figure 3.2 Register As Guide

### 3.3 Log in as Tourist

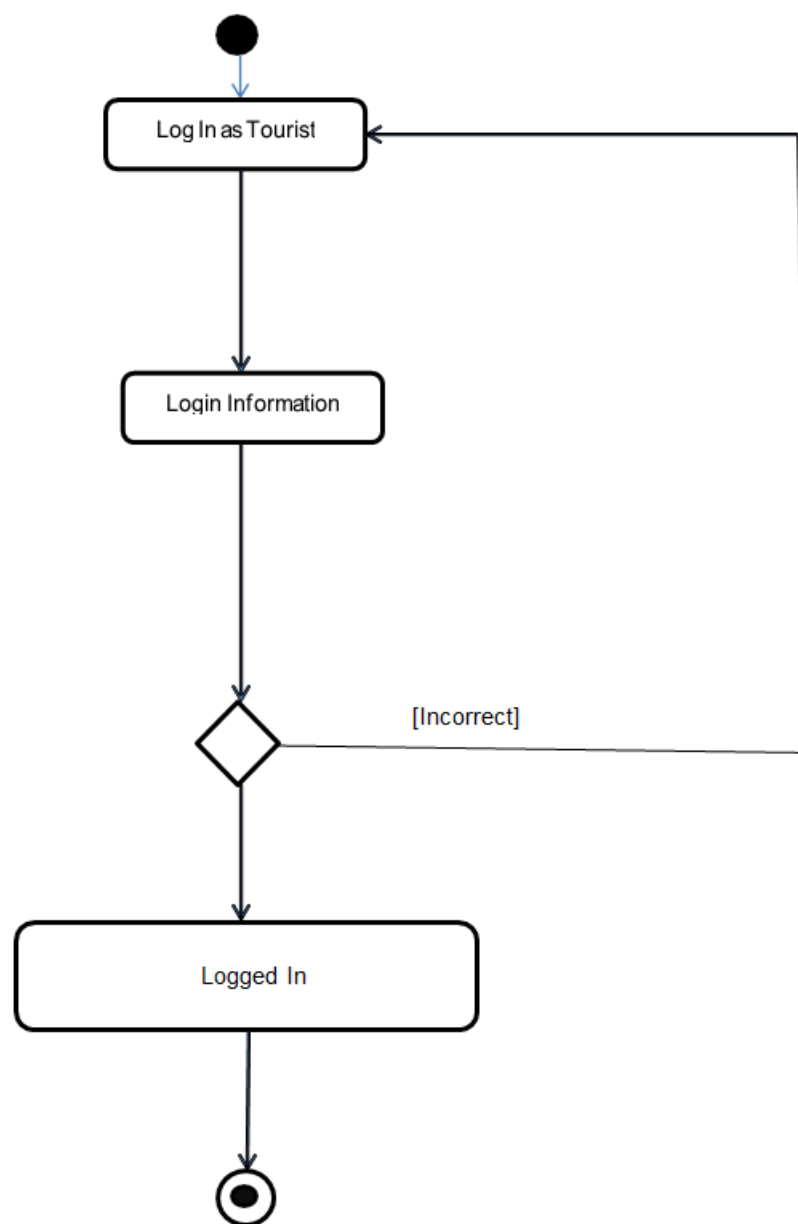


Figure 3.3 Log in as Tourist

### 3.4 Find Tour

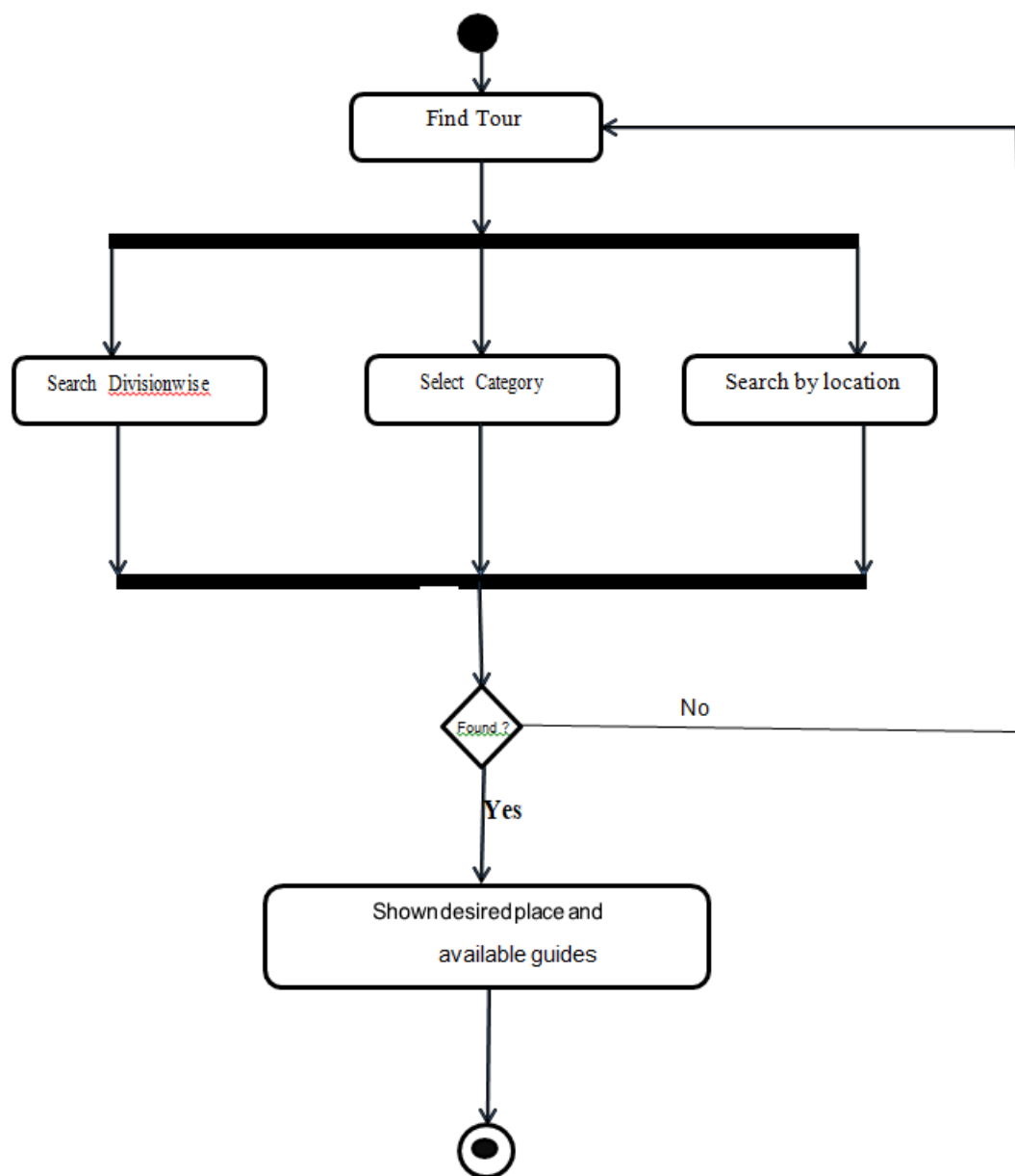


Figure 3.4 Find Tour

### 3.5 Find Guide

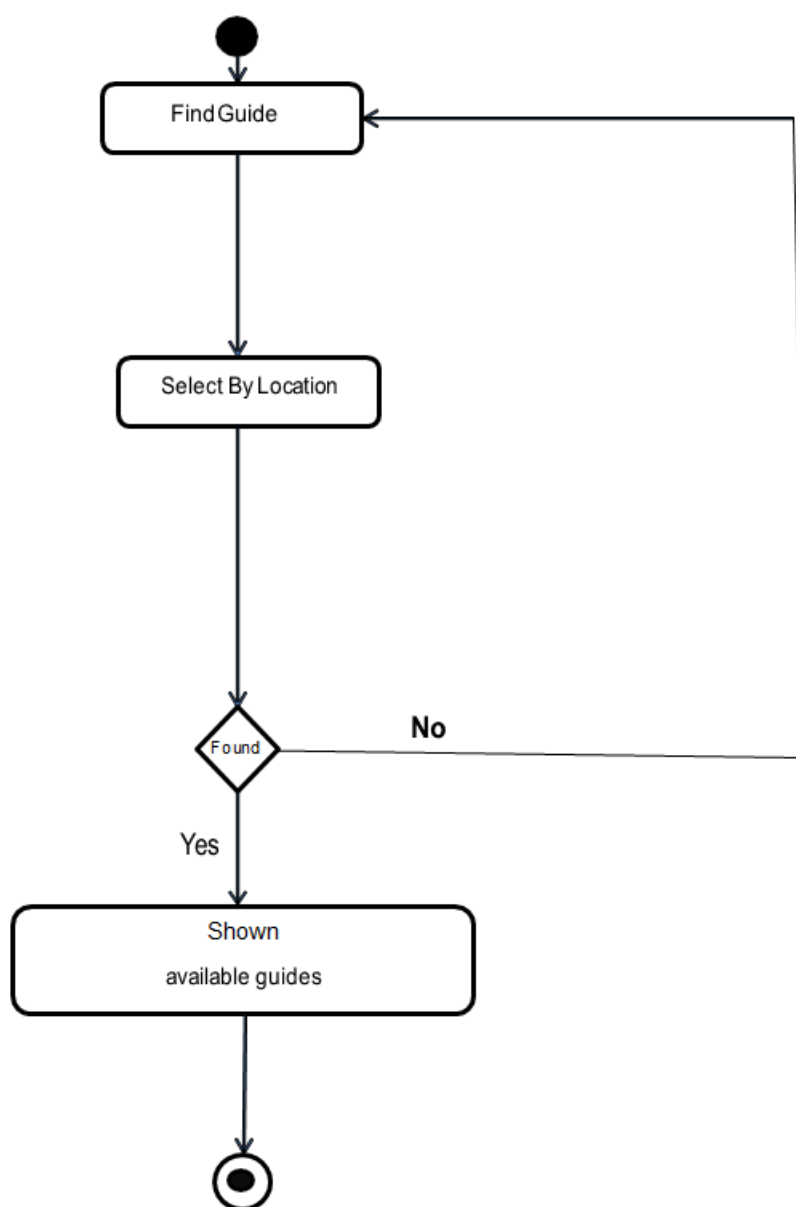


Figure 3.5 Find Guide

### 3.6 Confirm Guide

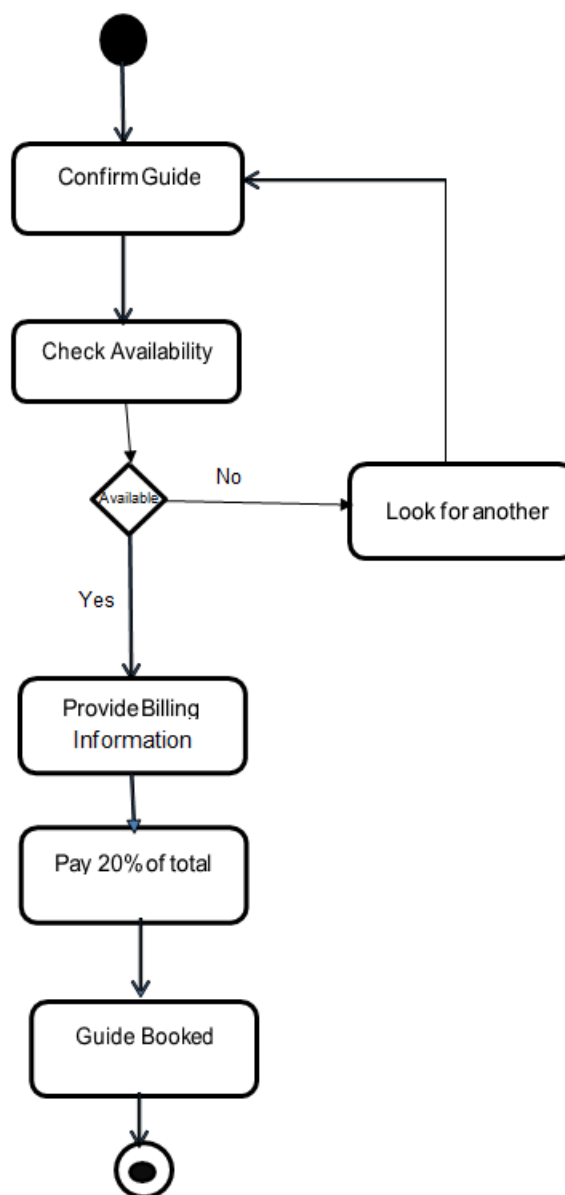


Figure 3.6 Confirm Guide

### 3.7 Check Profile

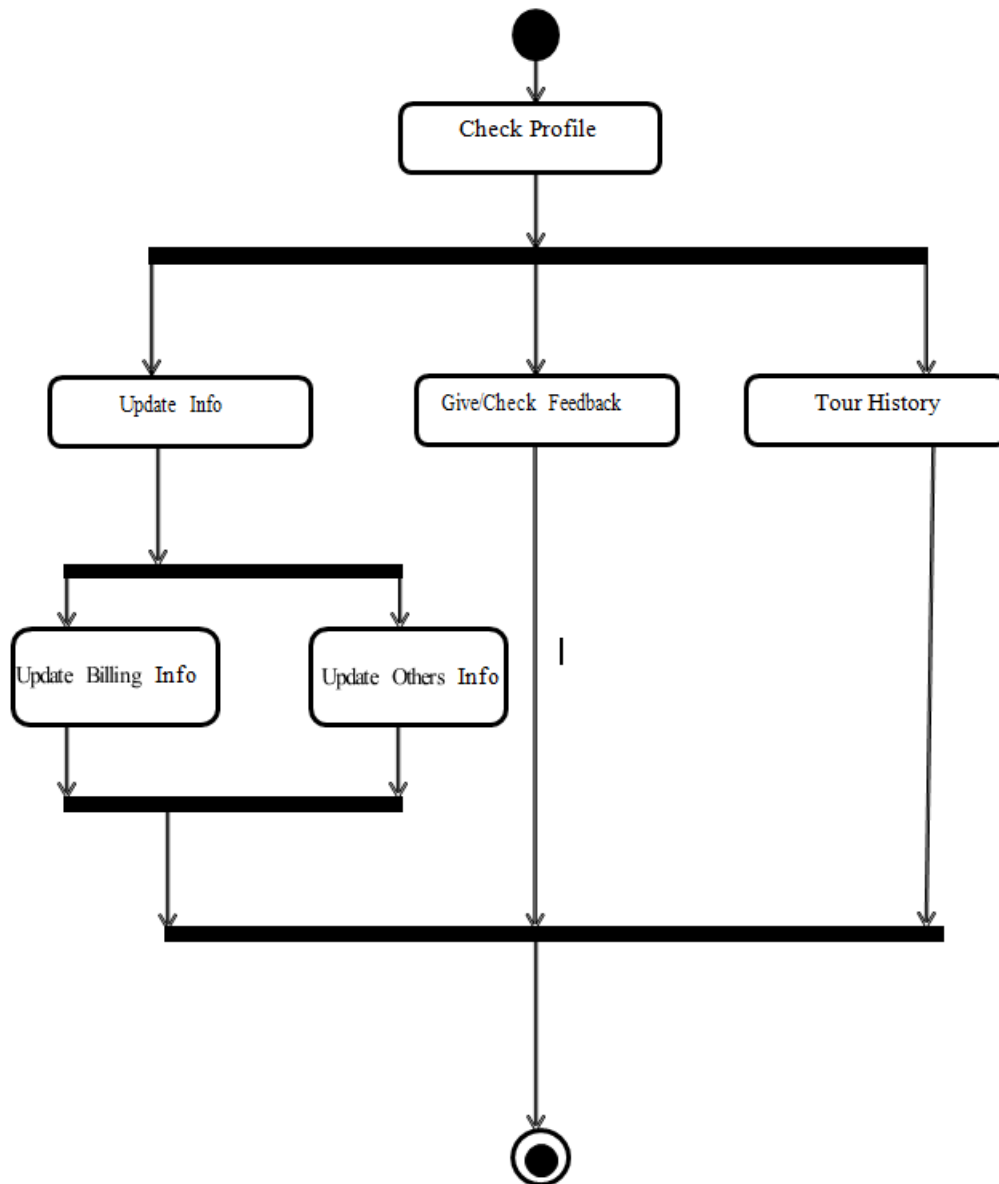


Figure 3. 7 Check Profile

## 4 Requirements traceability matrix

A traceability matrix is a document, usually in the form of a table, used to assist in determining the completeness of a relationship by correlating any two baselined documents using a many-to-many relationship comparison. It is often used with high-level requirements (these often consist of marketing requirements) and detailed requirements of the product to the matching parts of high-level design, detailed design, test plan, and test cases.

### 4.1 Business Requirements

BR1	Allow Stakeholder to search by various filter by location , by division ,by category
BR2	Allow tourist to store previous tours information
BR3	Allow guide to store previous tours information
BR4	Allow tourist/guide to see and update his/her profile
BR5	Allow tourist to see and edit his profile information
BR6	Allow tourist to manage previous tour information.
BR7	Guides will notify when a tourist wants to connect.
BR8	Allow Tourist to give feedback for guide.
BR9	Tourists can communicate with guides via email, phone, text message.
BR10	10% money will be deducted from total amount paid by tourists

### 4.2 Test Cases

Test case No	Test case
TC1	Login with valid user name/email & password.
TC2	Search place by search option.
TC3	Search place by category or division wise.
TC4	Search place by category or division wise.
TC5	Click sort profile of guide.
TC6	Go to details of guide profile.
TC7	Confirm a Guide.
TC8	Tourist update his/her profile.
TC9	Guide update his/her profile.
TC10	Tourist/Guide check profile.
TC11	Tourist give feedback.
TC12	Guide reply feedback.
TC13	Guide add rating his/her profile.
TC14	Search Guide by Location wise or direct search.
TC15	Pay 20% money via bcash / rocket in this system
TC14	Guide complete his /her registration.
TC17	Tourist complete register .

### 4.3 Traceability Matrix