

VIMANA.COM

EXPERIENCE THE BEST

CIS 9490
SEMESTER PROJECT

Team 1

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TOPICS



- Interview Questions and Analysis Report
- Competitive Analysis Report
- Usability Test Analysis
- Information Architecture Diagram
- Use Case Diagram
- Activity Diagram
- User stories(JIRA)
- Story Boards
- Wireframes

INTERVIEW QUESTIONS AND ANALYSIS REPORT



We have performed user interviews of 3 males and 1 female.

- 1. Users on an average travel twice a year for leisure.
- 2. They prefer booking flights online using laptop.

3. Difficulty in booking:-

- Users find it difficult to find the right combination of the flights at suitable times along with the hotel
- Users are unable to find the cheapest deal and best flight based on timing and the price.
- In case of cancellation or changes in booking it is a tedious task as user needs to call airlines, wait for them to respond etc whereas in case of travel agents, it is the agent that does it all for the user.

4. Things that could make the booking process easy:-

- User friendly UI
- Getting the optimum combination of good flights and good hotels faster and feel assured that user got the best deal in the market
- User can reserve the ticket and can keep the ticket on hold for 2-4 working days like travel agents do
- Consolidated website where user could compare prices and get the cheapest flight

Link for :- Interview Questionnaire & User Responses

INTERVIEW QUESTIONS AND ANALYSIS REPORT



Users Favourite	web	site:- KAYAK, Priceline, Expedia	VIMANA Experience The Best
Why users like	•	User friendly UI	
these websites	•	Clean Websites make it easy and a pleasurable booking experience	
	•	KAYAK:-gives a comparison grid for multiple days. Priceline:- credit card with priceline that gives reward point	while booking.
	•	Kayak: all the flights listed at one except southwest, Expedia : best vacation packages, Homeaway: best vacatio	n package
What users don't	•	Cost updates upon flight selection	
like about these websites	•	Too many options to choose from	
	•	Priceline:-Cannot see the e-ticket for the upcoming flights on the website	
	•	Kayak : lot of popups, Expedia: filter options are not as great, - Homeaway: search parameters, geographics lo required and appropriate	cation not as
Changes	•	Customizable options	
suggested by users	•	Website can customize the options based on user travel history and preferences like working with the knowledge (average) budget and favored airlines and hotels.	ge of user usual
	•	Automatic webcheck option when the window gets open. In this option automatic seats are selected based on sorder of customer which he/she can mention while booking.	ome preference
	•	Reduce popups, provide proper filters, and good geographical and 3 D view of locations.	

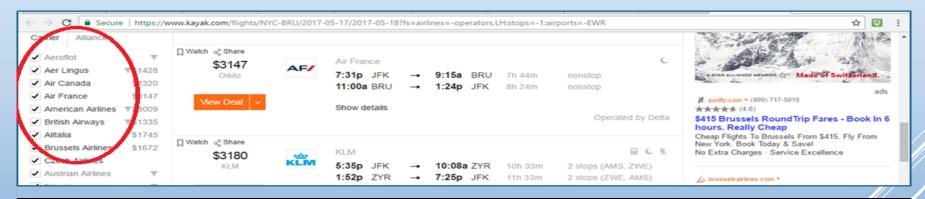


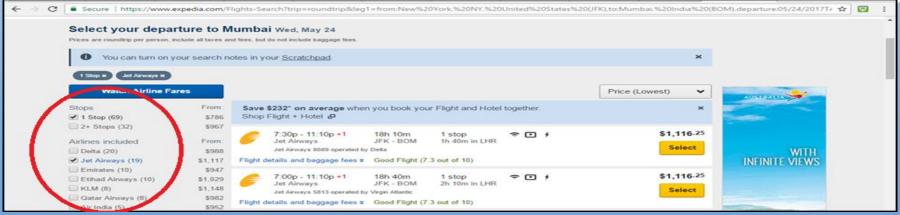
Competitive Analysis

WEBSITES	SEARCH OPTIONS	SEARCH FEATURES	OPTION TO SEARCH BY AIRLINES	PRICE COMPARISON	REWARDS AND DISCOUNTS	USER INTERACTIVITY		
The second secon	Flight, Hotels, Car rentals, packages, cruises, flight tracker	Good filter options; search by Airline, time, stops, layovertime, airports, booking providers. However to search for a particular thing one will have to 'untick' the other options to filter them out.	Available but at a later stage	Enables price comparison on a new page,however, it is not so clear	Discounts and offers provided on the search results page itself however, it is too clumsy for the user to differentiate between the airline and discount deal. All deals may not be relevant to the search results.	Interactive but confusing as every search takes you to a new page. Also, it is difficult to figure out where the search comparision with other websites is available, but a standardized process.		
	Hotels, cars, flights, cruises, vacation rentals, deals, rewards, option to get mobile app, things to do at your destination, option to search for flights +hotel,flights+hotels+cars etc.,advanced search option(refundable flights or nonstop).	Good filter options;search by airport,departure time,airlines, stops(non-stop option not available on serach results page) etc	Available but at a later stage	Enables price comparison on a new page,however, it is not so clear.	Deals option available at the top taking you to a totally different page, not so prominent, rewards on sign in.	Interactive and user friendly.Clear and standardized process.		
111	Flights,hotels,cars,vacations,explore taking you to interactive map and many more options under the 'more' menu,helpline number prominent	Wide filter options; search by stops, airlines, flight time, layover time, connecting destinations, and option to revise search on the same page(if you forget to add non stop in initial search then you can easily as for it on the same page), however, to search for a particular thing one will have to 'untick' the other options to filter them out.	Available but at a later stage	Enable price comparison of various websites on the same page.	Discounts pop-ups very prominent, rewards on signin available, discounts on credit cards, all offers very clear on the first page itself.	Very interactive and user friendly.Easy and standardized process.		
	Flights,hotels,cars,vacations,explore taking you to interactive map and many more options under the 'more' menu, help number,option to search flight +hotel+car, nonstop,onestop,search by airline option	Wide variety of filter options helping to narrow down the search results , no navigating on different pages.	available on the initial stage itself and also option to revise airline search on the results page.	Enable price comparison of various websites on the same page.	discounts pop-ups very prominent, rewards on signin available, discounts on credit cards, all offers very clear on the first page itself.	Very interactive and user friendly.Easy and standardized process.		









COMPARISON SUMMARY CHART



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WEBSITES						Oneway,								Save Prior													
					Search by	Round			Price		Help			Search													
					Airline at	Trip,		Compare	Comparis		Option	Instant	Seat	Even	Мар	Booking	Option to				Location						
		Browse			the Initial	Multicity		Price With	on		Prominent	Respond	Selection	Without	View of	Confirmat	Download		Fan	Event	Specific	Visa/Pass	Search		Travel		
Logi	gin	As	Login	Discount	Stage	Search		Other	Between		on the	to Queries	Before	Creating	Destin	ion	App on	Set Price	Flight	Flight	Suggestio	port	Flight by	Airport	Advisories	Regional	Add API to
Opt	otion	Guest	Rewards	Popups	Itself	Option	Via Flights	Websites	Airlines	Feedback	Screen	Via Chat	Booking	Account	ation	Message	Homepage	Alerts	Finder	Finder			Amenities	Shuttle Info	or Alerts	Setting	Blog
KAYAK.COM	./	./	./	./		./		./	./	./	./	./	./	./		./	./	./									
	V	V	V	V		٧		V	V	V	V	V	V	V		٧	V	٧									
EXPEDIA	./	./	./	./		./		./	./	./	./	./	./	./		./	./	./									
	V	V	V	V		٧		V	V	V	V	V	V	V		V	٧	٧									
CHEAPOAIR	./	./	./	./		./		./	./	./	./	./	./	./	1	./	./	./									
	V	٧	٧	٧		٧		V	٧	٧	V	٧	٧	٧	٧	٧	٧	٧									
Vimana.com	./	./	./	./	./	./	./	./	./	./	./	./	./	./	1	./	1	1	./	./	./	./	./	./	./	./	./
	Y	¥	¥	V	٧	٧	¥	V	V	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	¥	¥	٧

USABILITY TEST ANALYSIS



<u>UserTesting Report by Akshay</u>

<u>UserTesting Report by Chani</u>

<u>UserTesting Report by Pooja</u>

<u>UserTesting Report by Vrushali</u>



User Testing Demographics:

The demographics of the test group of 12 users used in this user testing exercise are as follows:

Age	25–35
Income	\$0K-\$150K+
Gender	6 Males & 6 Females
Country	United States

- The users had varying levels of technical expertise, but were all proficient with surfing websites on the internet. This is typical of the age group represented by the said demographic.
- The main themes highlighted by the users based on their experience of using CheapOair.com for booking air tickets are as follows.



What Users Liked:

- The overall 'Flight Search' for finding the cheapest flight was rated positively. Users stated the task of searching a flight was very easy.
- Few users liked the upfront promo-code popup.
- Most users liked the one page booking process which eliminates the need to navigate on different pages.
- All users liked that while filling in details, the green check marks and red cross marks make it easy to identify mistakes in individual fields.
- Some users like the website feature of predicting future prices on certain dates, while selecting the dates of travel. This is helpful in making decisions based mainly on price considerations.

What Users Disliked:

- The first impression of all twelve users of the website was that of an average flight booking website. The search option showed significant usability issues.
- Some users expressed that the search time for flights was quite long and there was no indication for the progress during this wait which makes them irritable.
- The search options on the left side seemed cluttered and not very prominent. Some filters were hidden and not evident to the users.
- It was observed that for many users the Travel protection plan was quite confusing and they preferred that it be separated from the booking process and only shown when the user explicitly wishes to subscribe to such a plan.
- For most of the users the process of booking their tickets took longer than expected and the length of the process can be shortened further by making the filtering process easier.
- Some users found the seating choice to be misleading as the image shown in the popup did not accurately represent the flight seating plan.



Subjective Ratings:

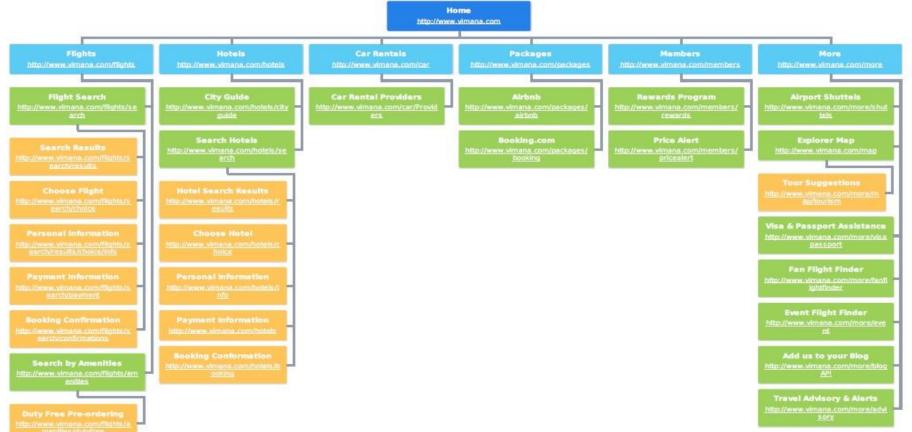
- CheapOair received overall positive subjective ratings.
- Average rating for each task is above 4.
- The overall both ease of use and satisfaction rating average is 4.

Problem Areas:

- The following represents a high level list of problems found during the evaluation:
- On Search results page, the users experienced that there was a lot of options on the screen like filters and advertisements.
- User was confused by the Travel Protection Plan option as how the selecting/deselecting/was affecting the price was not clear.
- Users had some difficulty while Seat selection as "preferred seat", "main cabin extra" are confusing since they are not self-explanatory like other options like "unavailable seat", also the image in seat selection does popup but it does not reflect the flight seat layout.
- Overall the booking process took longer than the users expected.

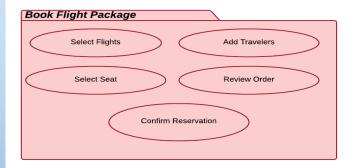
INFORMATION ARCHITECTURE(IA) DIAGRAM

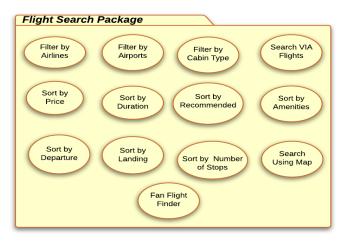


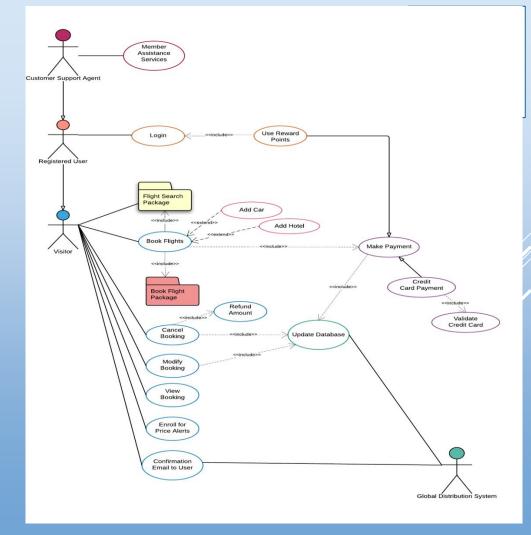


USE CASE DIAGRAM

Flight Booking Use Case

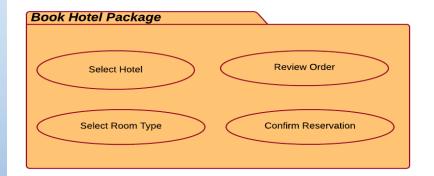


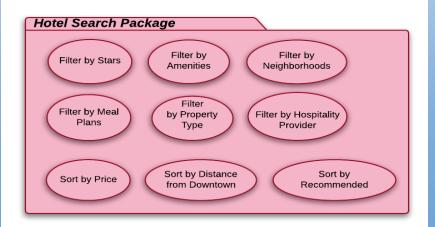


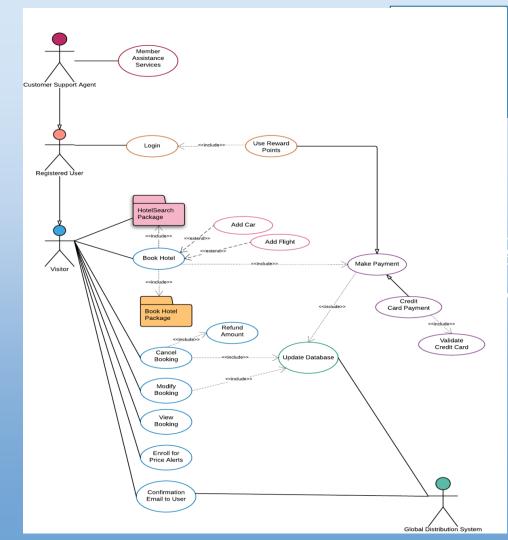


USE CASE DIAGRAM

Hotel Booking Use Case











Flight Booking Use Case

https://www.lucidchart.com/invitations/accept/ccf0a480-a83a-4f94-aa09-c545409289cf

Hotel Booking Use Case

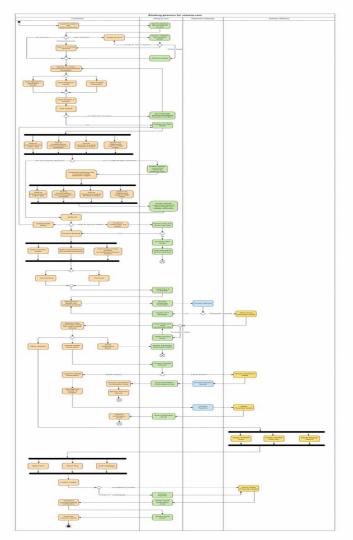
https://www.lucidchart.com/invitations/accept/0d4dd30b-cbf4-462d-bb89-af59e85c30fb





Activity diagram

https://www.lucidchart.com/invitations/accept/ee68ae6b-432a-43e1-860c-3f01fbbf70a8





USER STORIES (JIRA)

[CIS9490-136] Group1 Project VIMANA

- 1. <u>CIS9490-137</u> Sports Fan Flight Finder
- 2. <u>CIS9490-138</u> Event Flight Finder
- 3. <u>CIS9490-139</u> API for Blog
- 4. <u>CIS9490-14</u>0 Map Explorer
- 5. <u>CIS9490-14</u>1 Tourism suggestions
- 6. CIS9490-142 Car Rentals
- 7. <u>CIS9490-14</u>3 Price Alerts
- 8. <u>CIS9490-144</u> Rewards
- 9. <u>CIS9490-145</u> Travel Package
- 10. CIS9490-146 Advanced Search option for flight booking







- 11. CIS9490-147 Sort Option on Flight Search Results Page
- 12. <u>CIS9490-148</u> Flight Search Results Page to have Filter option
- 13. CIS9490-149 Get Price Alert while Flight booking
- 14. <u>CIS9490-150</u> Flight details and Payment Information on one page
- 15. <u>CIS9490-151</u> Display number of hotels catering to my requirements
- 16. <u>CIS9490-152</u> Charges Breakdown
- 17. CIS9490-153 Check In/Out Timings
- 18. <u>CIS9490-154</u> Resend Email Confirmation
- 19. <u>CIS9490-155</u> Price Alert for Hotels
- 20. CIS9490-158 Check-Out as Guest

TEAM EPIC ON JIRA: https://drive.google.com/file/d/08xw87uAyg7GEd1FOX2JsSnJ4eTA/view?usp=sharing

Storyboards-GET PRICE ALERTS





- 1 Flight Search
- Searching for cheap flights and believing that if we wait just a little longer, prices will drop



- 2 Set price alert
- 34 Set a price alert and receive a message/email when price falls below the price limit.



- 3 Get alert and confirm booking
- 3 Book the cheapest flight.



- 4 Travel more pay less
- → Travel the world for less!!!!

Storyboards-ADVANCED SEARCH OPTIONS





1 Searching for flights

Searching for Non-stop round-trip and with to return to different airport and your preferred airlines



2 Advanced options available

User can search from advanced search options.



3 Find the best match and book

3 Book your preferred airline and preferred coach



4 Fly with your preferred airline

Travel with your airline of your choice

Storyboards-MAP EXPLORER





- 1 Undecided traveler
- Undecided travelers look for affordable destinations to plan their itinerary.



- 2 Explore Maps
- Undecided travelers explore affordable destinations on Vimana's Map explorer.



- 3 Finds a destination
- They find an affordable destination on Vimana's Map explorer.



- 4 Proceeds to book
- Proceeds to book tickets to the destination of choice.

Storyboards-FAN FLIGHT FINDER





- 1 Sports Fans
- Sports fans are always looking for tickets in large numbers to support their teams.



- 2 Fan searching flight tickets
- This fan is looking for an easy website for tickets in large numbers to follow his team.



- 3 Finds Vimana's Fan Flight Finder
- Proceeds to book multiple tickets for multiple people according to his team's schedule.



- 4 Likes Vimana's Fan Flight Finder
- Books multiple tickets to multiple destinations following team schedule. It is so simple, almost child's play!

Storyboards- API





- 1 Travel Blogs
- Vimana customers can add us to their travel blogs and share their amazing experiences.



- 2 Share Your Photos & Videos
- \mathcal{F} Vimana customers can share their travel photos with the world.



- 3 Become Rich
- When you share your blog with us, we pay you handsomely. Earn for your photographs and videos.



- 4 Case Study
- Listen to our loyal customers and their wonderful experiences about Viman API.

Storyboards - VISA ASSISTANCE





- 1 Unsure?
- If you are unsure about the visa requirements for your travel, check it out at Vimana.com



- 2 Visa Assistance
- Tell us about your Citizenship and where you want to go.



- 3 You are Set!
- Tada! We give you the required information at your fingertips. Plan your travels with no more worries.

Storyboards- Travel Package





- Planning a vacation in Europe? Not able to decide upon a place?
- She was planning to go on a vacation and wanted suggestions to suit her budget.



- 2 At Vimana, get suggestions about the cheapest places to visit
- She decides to visit www.vimana.com and gets suggestions of the cheapest cities for travel purposes.



- 3 Find the best deal
- 36 She finds the best deal suiting her budget.



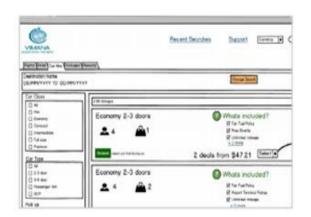
- 4 Book the package
- Drop images into a storyboard
- Confirms her booking and enjoys her vacation.

Storyboards-Rent-a-car





- 1 Deciding how to get back home?
- At vimana, you can book a car along with flight and hotel to help you get to your home/hotel on time.



- 2 Options to choose from various type of cars
- Variety of options available to choose the best car suitable for you.



- 3 Get the best car option and book.
- 36 Book the car!

WIREFRAMES



- Homepage/Flight Search Screen
- Hotel Search
- Car Search
- Packages
- Rewards
- Visa Assistance
- Map Explorer
- More

- Fan Flight Finder
- Event Search
- ► API
- Advisory & Alerts
- Airport Shuttle
- Tourism
- City Guide
- Login or Sign Up

COMPLETE WIREFRAME DOCUMENT LINK

https://drive.google.com/file/d/0BxwB7uAyg7GERjMzeklBSU5qLUU/view?usp=sharing



THANK YOU