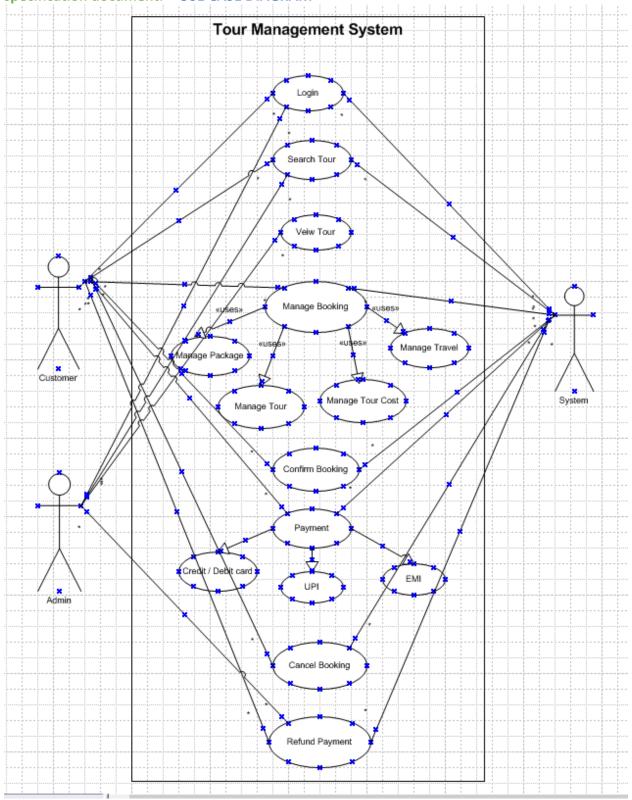
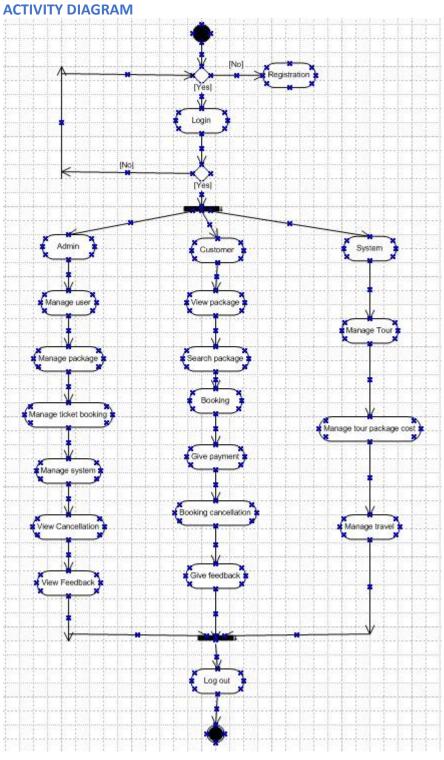
# WATERFALL DELIVARABLES -TOUR MANAGEMENT SYSTEM (SMART TOUR)

**DOCUMENT 6 : Please prepare a use case diagram, activity diagram and a use case specification document. - USE CASE DIAGRAM** 





# **USECASE SPECIFICATIONS**

# > USER LOGIN

Use case Name	User Login
Use case Description	This use case describes the process by which a user securely
	logs into the tour app using their credentials (email, phone
	number, or social media login). The system verifies the
	credentials and grants access to personalized services.
Primary actor	User (Customer)
Secondary actor	Authentication System, Database
Basic Flow	The user opens the app and navigates to the login screen.
	•The system prompts the user to enter credentials
	(email/phone number & password) or select social login.
	•The user inputs the details and submits the login request.
	•The system validates the credentials against stored records.
	•If valid, the system grants access and redirects the user to the
	home screen.
	•The user can now access personalized features.
Alternate Flow	Social Login: Instead of entering credentials, the user selects a
	social media login (Google/Facebook/Apple). The system
	redirects to the respective authentication service, verifies
	credentials, and logs in the user.
Exceptional Flows	Invalid Credentials: If incorrect details are entered, the system
-	displays an error message and prompts for re-entry.
	<ul> <li>Account Locked: If multiple failed attempts occur, the</li> </ul>
	account is temporarily locked, and the user is notified.
	<ul> <li>Network Error: If the system fails to connect to the</li> </ul>
	authentication server, an error message appears.
Pre- Conditions	•The user must be a registered member with valid credentials.
	<ul> <li>Internet connectivity must be available for online</li> </ul>
	authentication.
Post- Conditions	•The user is successfully logged in and redirected to the
	dashboard.
	<ul> <li>Failed login attempts are logged for security monitoring.</li> </ul>
Assumptions	•The user has an active account.
	•The system supports multiple authentication methods.
Constraints	Passwords must meet security standards (e.g., minimum 8
	characters, special character required).
	•The system should not allow more than 5 failed login
	attempts within a short period.
Dependencies	•Integration with authentication APIs (e.g., Google OAuth,
	Facebook Login).

	•A secure database for storing user credentials.
Inputs	Email/phone number, password, or social login credentials.
Outputs	Success message, error message, or locked account
	notification.
Business Rules	•Users must verify their email/phone before first login.
	•Two-factor authentication (2FA) may be required for
	enhanced security.
	•Expired passwords prompt a reset request.
Miscellaneous Information	•Future updates may include biometric login (fingerprint/face
	ID) for enhanced security.
	•A "Remember Me" option allows users to stay logged in for a
	specified duration.

# SEARCH TOUR

Use case Name	Search Tour
Use case Description	This use case describes how a user searches for available tours
	based on preferences like destination, date, price range, and
	activities. The system retrieves and displays relevant results
	from the tour database.
Primary actor	User (Traveler)
Secondary actor	System, Tour Database.
Basic Flow	•The user opens the app and navigates to the search tour
	section.
	•The user enters search criteria (e.g., destination, travel dates,
	budget, category).
	•The system fetches relevant tour data from the database.
	<ul> <li>Matching tours are displayed to the user with filters and</li> </ul>
	sorting options.
	•The user selects a tour to view more details.
Alternate Flow	•If no criteria are entered, the system displays all available
	tours.
	•If no exact matches are found, the system suggests similar
	tours.
	•If filters are applied, the system updates the displayed results
	dynamically.
Exceptional Flows	•If no tours match the search criteria, a "No results found"
	message is displayed with suggestions.
	•If the tour database is down, the system displays an error
	message and asks the user to try later.
	•If the user enters invalid inputs, an error message prompts
	them to correct the information.
Pre- Conditions	<ul> <li>The system must be connected to a tour database.</li> </ul>

	-The construct have interest access to retain a term of a construction
	•The user must have internet access to retrieve tour results.
Post- Conditions	•The user successfully views available tours or receives
	alternative suggestions.
	•Search history may be saved for future reference (if enabled).
Assumptions	•The user has basic knowledge of using a mobile or web-based
	application.
	•The database contains up-to-date tour information.
Constraints	•System response time should be within 3-5 seconds.
	•Search queries should not exceed a predefined threshold
	(e.g., 100 results).
	•The app must support searches in multiple languages (if
	applicable).
Dependencies	•The system depends on the tour database and external APIs
	for fetching tour data.
	•Search results rely on the accuracy and availability of stored
	data.
Inputs	Destination, date, budget, activities, filters, and sorting
	preferences.
Outputs	List of matching tours, alternative suggestions, or an error
	message.
<b>Business Rules</b>	<ul> <li>Search results should be ranked based on relevance,</li> </ul>
	popularity, and user ratings.
	•Special discounts and promotions should be highlighted in
	the search results.
	•Users should be able to save searches for later viewing.
Miscellaneous Information	•The app may include AI-based recommendations based on
	past user behavior.
	Search history may be used to improve future
	recommendations.
	·

# > VEIW TOUR

Use case Name	Veiw Tour
Use case Description	This use case describes how a user views available tours,
	including tour details such as itinerary, pricing, availability, and
	booking options.
Primary actor	User
Secondary actor	System Admin
Basic Flow	•User logs into the tour app.
	<ul><li>User navigates to the "View Tours" section.</li></ul>
	•The system displays a list of available tours with basic details
	(name, location, price, date).
	•User selects a specific tour to view more details.

	T
	•The system retrieves and displays the full tour details
	(itinerary, images, pricing, availability, etc.).
	•User can choose to proceed with booking, save the tour, or
	exit.
Alternate Flow	•If the user filters the tour list: The system applies filters (e.g.,
	price range, location) and displays results accordingly.
	•If the user searches for a specific tour: The system retrieves
	relevant tours matching the search query.
Exceptional Flows	•If no tours are available: The system displays a message, "No
	tours available at the moment."
	•If the system fails to retrieve tour details: The system displays
	an error message and prompts the user to try again later.
Pre- Conditions	•The user must have access to the app.
	•The system must have an updated database of available
	tours.
Post- Conditions	•The user successfully views tour details or receives an
	appropriate error message.
	•The system logs user interactions for analytics.
Assumptions	Users have a stable internet connection.
	•The tour database is regularly updated.
Constraints	•System response time must be quick to avoid user frustration.
	•Tour details must be presented in a user-friendly format.
Dependencies	•The system depends on a real-time database of tours.
	•API integrations may be needed for live availability updates.
Inputs	User search/filter criteria (e.g., location, price range, date).
Outputs	A list of matching tours with relevant details.
Business Rules	Only verified and available tours should be displayed.
	Prices should be dynamically updated based on availability
	and demand.
Miscellaneous Information	User feedback on tours may be collected to enhance
	recommendations.
	•A caching mechanism may be used to speed up tour retrieval.

# > CONFIRM BOOKING

Use case Name	Confirm Booking
Use case Description	This use case describes the process of confirming a tour booking in the app after the user selects a tour, provides required details, and makes a payment. The system verifies availability, processes payment, and generates a booking confirmation.
Primary actor	User
Secondary actor	Payment Gateway

	• Hatal/Tour Operator System
	Hotel/Tour Operator System     Advair (for many selection if a code d)
n ' =!	Admin (for manual verification if needed)
Basic Flow	•The user selects a tour package and proceeds to checkout.
	•The system displays the booking summary, including price,
	itinerary, and policies.
	•The user enters personal details and selects a payment
	method.
	•The system verifies real-time availability for the selected tour.
	•The user confirms the booking and initiates payment.
	•The payment gateway processes the transaction and returns
	a success response.
	•The system generates a booking confirmation and sends it via
	email/SMS.
	•The user can view the confirmed booking
Alternate Flow	•5A: If the user applies a promo code, the system validates and
	applies the discount before payment.
	•5B: If the user selects "Pay Later" (if available), the booking is
	reserved temporarily with a deadline for payment.
Exceptional Flows	•6A: If payment fails, the system displays an error message
•	and allows the user to retry or choose another payment
	method.
	•6B: If the tour is fully booked during the confirmation
	process, the system notifies the user and suggests alternative
	dates or tours.
	•6C: If the internet connection is lost during the process, the
	system saves the progress and allows the user to resume
	booking later.
Pre- Conditions	•The user must be logged into the app.
	•The selected tour must be available for booking.
	•The user must have a valid payment method.
Post- Conditions	•The booking is successfully recorded in the system.
	•The user receives confirmation details via email/SMS.
	•The system updates tour availability to prevent overbooking.
Assumptions	The payment gateway is operational.
Assumptions	The payment gateway is operational.     The tour operator provides real-time availability updates.
	•The user has a stable internet connection.
Constraints	
Constraints	•Bookings must be completed within a fixed time limit (e.g., 10
	minutes) before the session expires.
	Some tours may require manual confirmation before
<u> </u>	finalizing.
Dependencies	Reliable third-party payment processing.
	<ul> <li>Accurate tour inventory updates from vendors.</li> </ul>

	Secure data transmission for user details and payment
	information.
Inputs	User details, selected tour, payment details, promo codes (if
	applicable).
Outputs	Booking confirmation, payment receipt, email/SMS
	notification.
Business Rules	A booking is not confirmed until payment is successfully
	processed.
	•Refund and cancellation policies apply as per tour operator
	rules.
	Promo codes must be validated before checkout.
Miscellaneous Information	• Future enhancements could include AI-powered
	recommendations for alternative bookings in case of
	unavailability.
	•Integration with travel insurance services for added security.

# > CANCEL BOOKING

Use case Name	Cancel Booking
Use case Description	This use case describes the process by which a user cancels an
	existing booking for a tour, hotel, or transportation. It ensures
	the booking is successfully canceled, with appropriate
	notifications, refund processing (if applicable), and updates to
	the availability database.
Primary actor	User
Secondary actor	•Customer Support Representative (for assisted cancellations)
	<ul><li>Payment Gateway System (for refunds)</li></ul>
	<ul> <li>Booking System (for availability updates)</li> </ul>
Basic Flow	<ul><li>The user logs into the app and navigates to the "My</li></ul>
	Bookings" section.
	<ul> <li>The user selects the booking they wish to cancel.</li> </ul>
	•The app displays the cancellation policy and refund details.
	•The user confirms the cancellation request.
	•The system processes the request and updates the booking
	status to "Canceled."
	•If applicable, the system initiates a refund via the payment
	gateway.
	•The user receives a confirmation notification via email and/or
	SMS.
Alternate Flow	•5A: If the user is eligible for a partial refund, the system
	calculates and displays the refundable amount before
	confirmation.

	•5B: If cancellation is requested after the refund window has
	passed, the system informs the user that no refund is available
	but allows cancellation.
Exceptional Flows	•6A: The booking cannot be canceled (e.g., non-refundable
•	booking). The system notifies the user and suggests contacting
	customer support.
	•6B: Payment gateway failure during refund processing. The
	system retries or escalates the issue to support.
	•6C: Internet connectivity issues prevent cancellation. The
	system prompts the user to retry later.
Pre- Conditions	•The user must have an active booking in the system.
	•The booking must be eligible for cancellation (as per
	cancellation policy).
	•The user must be logged into the app.
Post- Conditions	•The booking status is updated as "Canceled."
	•If applicable, the refund is processed.
	Notifications are sent to the user and relevant service
	providers.
Assumptions	Users have read and understood the cancellation policies
7.000	before booking.
	•The system has real-time integration with the payment
	gateway.
	•The user has a stable internet connection.
Constraints	Cancellation policies vary based on service providers (hotels,
	airlines, etc.).
	•Refunds may take a few days to process, depending on the
	payment gateway.
	•Some bookings may be non-refundable.
Dependencies	•The booking system must update the availability database.
•	Payment gateway must support automated refunds.
	Notification services (SMS, email) must be functional.
Inputs	Booking ID
•	User confirmation of cancellation
	Refund eligibility status
Outputs	Booking cancellation confirmation
•	Updated booking status
	Refund transaction ID (if applicable)
	Cancellation confirmation message (email/SMS)
Business Rules	Cancellations must comply with the service provider's refund
	policy.
	Refunds are processed only if cancellation is within the
	allowed time frame.
	anomed time name.

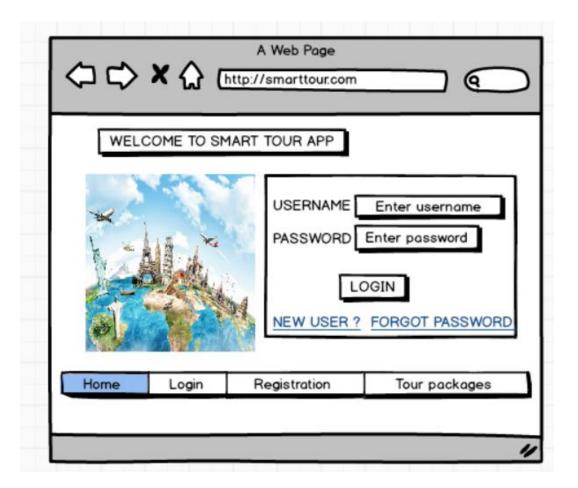
	•The system should record all cancellation requests for future audits.
Miscellaneous Information	•The system should provide an option for users to give
	feedback on the reason for cancellation.
	•If a booking is canceled due to system errors or double
	bookings, the company may offer compensation.

### **DOCUMENT 7 – SCREENS & PAGES**

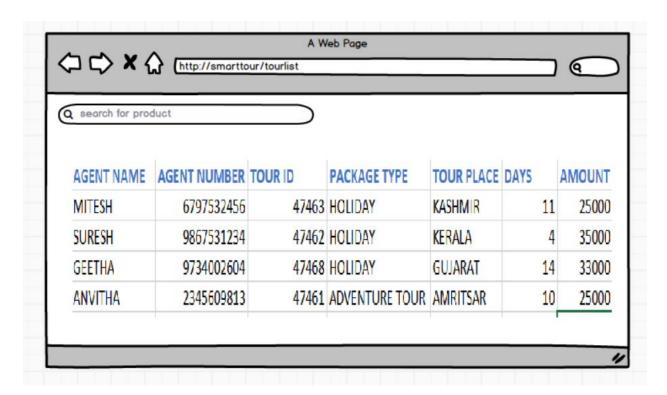
# 1. HOME PAGE



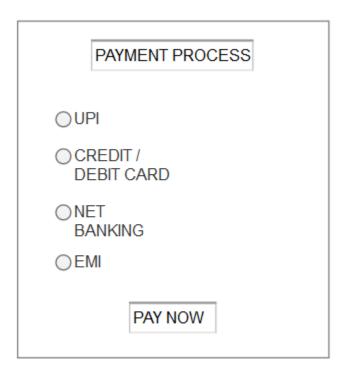
# 2. LOGIN PAGE



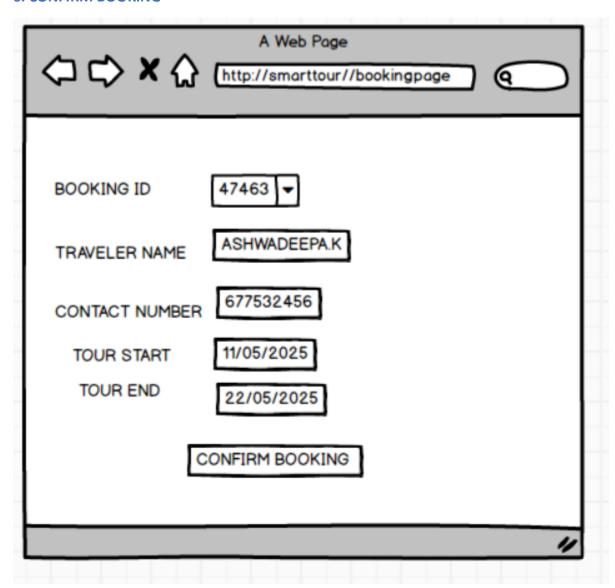
A Web Page  http://smarttour.com	)
SIGN UP	
Create Your Account if you are a New User!	
Create a username	
Create a password	
Re - enter the password	
Enter moblie number	
Enter Email ID	
Add your address	
SIGN UP	
	"



#### **5.PAYMENT PAGE**



#### 6. CONFIRM BOOKING



#### **Using MS Visio:**

MS Visio was instrumental in creating flowcharts, use case diagrams, and system architecture for the Tour App's Cancel Booking feature. The tool's drag-and-drop interface made it easy to map out processes, such as booking cancellation flows, refund processing, and exception handling. The ability to use predefined stencils and templates helped streamline the development of entity-relationship diagrams (ERD) for database design. Collaboration features in Visio Online allowed team members to review and refine diagrams efficiently.

### **Using Axure:**

Axure was used for prototyping and UI/UX design, enabling the creation of interactive wireframes and mockups for the booking cancellation interface. With dynamic panels and conditional logic, we simulated real-time responses like refund eligibility checks and error handling (e.g., non-refundable bookings). The ability to create clickable prototypes helped in gathering early feedback from stakeholders before moving to development. Axure's integration with Figma and Sketch also ensured seamless collaboration with designers and developers.

#### **DOCUMENT 9 – BA EXPERIENCE**

#### 1. Requirement Gathering

- Conducted stakeholder interviews with travel agencies, customers, and service providers to understand pain points.
- Collected data on current booking and cancellation challenges through surveys and market research.
- Created a Business Requirement Document (BRD) outlining core functionalities like booking, cancellation, and refund processing.
- Defined scope, goals, and success criteria with stakeholders to align business needs with the app's features.

### 2. Requirement Analysis

- Analyzed collected requirements and identified functional & non-functional requirements for the app.
- Worked with SMEs (Subject Matter Experts) to define cancellation policies, refund logic, and dependency on third-party APIs (hotels, airlines, etc.).
- Created use case diagrams and process flows in MS Visio to visualize workflows like cancellation requests.
- Collaborated with the development team to finalize the Software Requirement Specification (SRS) document.

#### 3. Design

- Assisted UX/UI designers by providing user journey insights for key features like booking and cancellations.
- Created wireframes and prototypes in Axure to visualize user interactions and process flows.
- Reviewed data flow diagrams (DFDs) to ensure smooth data exchanges between the app, payment gateways, and external booking providers.

• Facilitated design approval meetings with stakeholders to confirm alignment with business needs.

# 4. Development

- Acted as a bridge between business and technical teams, ensuring developers understood business logic.
- Conducted regular requirement clarification sessions to address doubts and refine features.
- Assisted in creating API documentation for third-party integrations (e.g., payment gateways, airline booking systems).
- Reviewed early-stage UI builds and functionality to ensure alignment with business goals.

#### 5. Testing

- Worked with QA teams to define test scenarios and acceptance criteria based on requirements.
- Conducted UAT (User Acceptance Testing), simulating real-world scenarios like cancellations, refunds, and booking modifications.
- Identified and documented bugs, inconsistencies, and missing features, ensuring they were addressed before deployment.
- Ensured that the app met regulatory compliance related to data security, refund policies, and customer rights.

### 6. Deployment

- Assisted in preparing user guides and FAQs for customer support teams.
- Conducted training sessions for stakeholders on how to use the app effectively.
- Monitored post-launch feedback, collecting customer reviews and analytics to suggest improvements for future updates.
- Facilitated post-deployment meetings to assess system performance and ensure business goals were met.