# **Etoile Yachts Mobile Application**

#### 1. Overview

# **Application Summary**

The Etoile Yachts Mobile Application is a luxury service platform designed for high-net-worth individuals to seamlessly book, manage, and enjoy premium water sports activities, yacht rentals, and integrated leisure services. The application caters to Peer Consumers (e.g., tourists, corporate clients), Peer Producers (e.g., yacht owners, captains, facilitators) and Partners (chefs, water sports equipment providers, music groups, restaurants, caterers).

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# **Key Features**

- 1. User Registration and Profile Management
- For Consumers:
- Register and log in using email, social media, or phone.
- Create profiles with preferences for activities, yachts, and luxury services.
- View and edit profile information.
- For Producers:
- Register as service providers (yacht owners, captains, facilitators).
- Create detailed service profiles with offerings (e.g., yacht rentals, water sports).
- Upload certifications, photos, and other documents.
- 2. Search and Discovery
- Intelligent search with filters:
- Location, dates, activity types, yacht size, amenities.

- Personalized recommendations based on preferences and past bookings.
- Explore curated luxury packages combining yachts, dining, and water sports.

#### 3. Booking System

- Real-time booking and availability for yachts, activities, and packages.
- Dynamic pricing based on demand, seasonality, and availability.
- Multi-step booking process:
- Select service > Customize options > Confirm > Payment.

#### 4. Customizable Itineraries

- Users can personalize their experiences:
- Add activities (e.g., jet skiing, snorkeling).
- Include dining or live entertainment options.

# 5. Payment Integration

- Secure payment gateway supporting credit cards, digital wallets, and international currencies.
- Save payment methods for quick checkout.
- View and download receipts.

## 6. Real-Time Notifications

- Booking confirmations, reminders, and itinerary updates.
- Alerts for weather conditions, delays, or cancellations.
- Post-activity thank-you messages and feedback requests.

#### 7. User Feedback and Reviews

- Rate services and write reviews.
- View aggregated ratings and testimonials for yachts, captains, and facilitators.

# 8. Loyalty Program Integration

- Earn points for bookings and referrals.
- Redeem points for discounts or exclusive services.

### 9. Admin Dashboard (Backstage)

- For producers and administrators:
- Manage bookings, schedules, and equipment availability.
- Access customer profiles and preferences.
- Generate performance reports and revenue analytics.

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#### **Technical Requirements**

#### Technology Stack

- Frontend: React Native for cross-platform mobile app development (iOS and Android).
- Backend: Node.js with Express.js for API development.
- Database: PostgreSQL for structured data storage.
- Cloud Services: AWS or Firebase for hosting, push notifications, and storage.
- AI Integration: Python for AI-driven recommendations and dynamic pricing models.

## **Key Integrations**

- Payment Gateway: Stripe or PayPal for secure transactions.
- Maps and Location: Google Maps API for location-based services.
- Authentication: OAuth 2.0 for social media and email-based login.
- Push Notifications: Firebase Cloud Messaging for real-time updates.

# UI/UX Design Principles

- Elegant and minimalistic design reflecting luxury branding.
- Easy navigation with clear CTAs.
- High-quality visuals for yachts, activities, and experiences.
- Responsive and optimized for various device sizes.

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## Development Steps on Replit

#### 1. Project Setup

- Create a new Replit project using the React Native template.
- Initialize a GitHub repository for version control.

## 2. UI/UX Design

- Design wireframes for:
- Registration screens (Consumer and Producer).
- Search and discovery pages.
- Booking flow.
- Profile and dashboard.
- Use tools like Figma or Adobe XD and import designs into Replit.

### 3. Frontend Development

- Build the React Native components for:
- Registration and login forms.
- Search filters and recommendation carousels.
- Booking wizard with progress indicators.
- Integrate with Google Maps API for location services.

### 4. Backend Development

- Develop RESTful APIs for user management, bookings, and payments.
- Use Replit's Node.js environment to build backend logic.
- Connect to PostgreSQL database for storing user profiles, bookings, and reviews.

#### 5. AI Features

- Use Python scripts to:
- Generate activity recommendations.
- Implement dynamic pricing models based on real-time data.
- Host AI services as microservices and integrate with the app via APIs.

#### 6. Testing and Debugging

- Test the application on both iOS and Android simulators.
- Perform unit and integration tests for backend and frontend components.
- Address performance bottlenecks and UI glitches.
- 7. Deployment
- Use Replit's deployment tools to host a beta version.
- Publish the app on Apple App Store and Google Play Store.

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#### **Future Enhancements**

- 1. Augmented Reality (AR)
- Virtual tours of yachts and marinas.
- 2. AI Chatbot
  - Provide real-time concierge services.
- 3. Blockchain Integration
  - Enable secure contracts and payments.

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To enable **Etoile Yachts** to effectively manage its ecosystem, provide a seamless customer experience, and enable advanced AI capabilities, the following ontologies are essential. These ontologies will structure and integrate the data and relationships across all ecosystem entities:

## 2. Ontology

# 2.1 Customer Ontology

Purpose: Captures details about high-net-worth tourists, corporate clients, and residents.

#### Entities:

- o Customer demographics (age, nationality, preferences).
- o Customer roles (e.g., primary booker, participant, influencer).
- o Behavioral data (past bookings, preferences, feedback).
- o Loyalty program details (points, rewards).
- o Persona modeling (e.g., adventure-seeker, luxury connoisseur).

## • Relationships:

- o Links between customers and services used (e.g., water sports activities, yachts booked).
- o Referrals or group bookings (social network connections).
- o Feedback and reviews provided on activities.

# 2.2 Yacht and Equipment Ontology

Purpose: Manages information about yachts, water sports equipment, and related assets.

#### • Entities:

- o Yachts (model, capacity, features like spa or dining areas).
- o Water sports equipment (type, brand, safety certifications).
- o Maintenance and availability status.
- o Customization options (e.g., party setup, child-friendly features).

# • Relationships:

- o Yachts linked to captains and service providers.
- o Equipment linked to specific activities or packages.
- o Ownership or leasing details.

# 2.3 Activity Ontology

**Purpose:** Defines the structure and details of activities offered through Etoile Yachts.

#### • Entities:

- o Activity types (e.g., jet skiing, scuba diving, luxury dining).
- o Safety protocols and instructions.
- o Required equipment and staff.
- o Environmental factors (e.g., weather conditions, marine zones).

### • Relationships:

- o Activities linked to yachts, facilitators, and equipment.
- o Dependencies between activities (e.g., prerequisite certifications for diving).

# 2.4 Partner Ontology

**Purpose:** Represents relationships with service providers like chefs, facilitators, and tour operators.

#### • Entities:

- o Service providers (e.g., chefs, water sports facilitators).
- o Partner roles and services offered.
- o Certifications and expertise.
- o Revenue-sharing agreements or commissions.

## • Relationships:

- o Partners linked to specific activities, equipment, or customers.
- o Cross-partnerships (e.g., chef paired with yacht for dining experience).

# 2.5 Geographic Ontology

Purpose: Manages locations of activities, docking points, and tourist pickup/drop-off.

#### • Entities:

o Marinas, docking points, and luxury residences.

- o Water activity zones (e.g., jet-ski areas, snorkeling spots).
- o Transportation routes.

## • Relationships:

- o Locations linked to activities, equipment, or providers.
- o Geospatial relationships for logistics optimization.

# 2.6 Booking and Transaction Ontology

Purpose: Manages reservations, payments, and customer interactions.

#### • Entities:

- o Booking records (customer, yacht, activity, schedule).
- o Payment details (method, currency, amount).
- o Cancellations or reschedules.
- o Promotional codes or discounts.

#### • Relationships:

- o Bookings linked to customers, yachts, and partners.
- o Payment details tied to bookings and loyalty rewards.

# 2.7 Safety and Compliance Ontology

**Purpose:** Ensures regulatory adherence and customer safety.

## • Entities:

- o Safety standards for activities and equipment.
- o Insurance coverage for yachts and activities.
- o Local laws and marine regulations.
- Emergency protocols and contact details.

#### • Relationships:

- o Safety standards linked to equipment and activities.
- o Compliance requirements tied to locations and providers.

# 2.8 AI Recommendation Ontology

Purpose: Powers AI-driven personalization and activity recommendations.

#### • Entities:

- o Customer preferences and historical data.
- o Activity popularity trends.
- o Contextual data (e.g., weather, seasonal events).

#### • Relationships:

- o Recommendations tied to customers, activities, and packages.
- o Feedback loop for refining suggestions.

# 2.9 Feedback and Review Ontology

Purpose: Structures data for customer and partner reviews and feedback.

#### • Entities:

- o Feedback categories (e.g., service quality, yacht cleanliness).
- o Ratings (numerical or textual).
- o Review timestamps and context.

# • Relationships:

- o Reviews linked to specific customers, activities, and providers.
- o Aggregated ratings tied to yachts, equipment, or services.

# 2.10 Marketing and Loyalty Ontology

Purpose: Structures data for campaigns, loyalty programs, and referral systems.

#### • Entities:

- o Marketing campaigns (channel, target audience, performance).
- o Loyalty tiers and benefits.
- o Referral programs (referrers, referees, rewards).

## • Relationships:

- o Campaigns linked to activities, geographic regions, and demographics.
- o Loyalty points tied to customer profiles.

# 2.11 Operational Ontology

Purpose: Supports backend operations and workflow management.

#### • Entities:

- o Staff (roles, schedules, skills).
- o Maintenance logs (yachts, equipment).
- o Logistics (transport routes, schedules).

# Relationships:

- o Staff linked to specific yachts or activities.
- o Maintenance tasks tied to equipment and scheduling.

# 2.12 Environmental Impact Ontology

**Purpose:** Tracks and manages the sustainability aspect of operations.

### • Entities:

- o Carbon footprint for activities.
- o Eco-certifications for yachts and equipment.
- o Waste management protocols.

# • Relationships:

o Sustainability metrics tied to activities and providers.

# 3. Service Blueprints

Service Blueprint for Stage 1: Registration/Onboarding of Offerings

Step Definition	Actor Action	Frontstag e Touchpoi nt	ge	Backstage Service Actor	Backstage Touchpoi nt		Policies	Questions	Potential Pitfalls	Implementati on Owner	Proje ct Phase
Account Creation for Service	Service provider registers an account.	AquaSira platform sign-up page.	service	Back-end team ensures data encryption and account creation.	Registratio n database.	User authenticati	protection	How to simplify the			MVP
Profile	Service provider fills in basic details.			Data team validates profile completion.	Data validation scripts.	validators.	profile data	fields			MVP
Step 3: Upload Offer	Service provider inputs offering s (e.g., yachts, services ).	Upload portal for	uploading	Data ingestion team checks file compatibilit y.	File storage system.	Secure file hosting.	on of uploaded	standardize	Poor- quality uploads or incompatib le formats.		MVP
Verification n and	submits	the upload	service notifies	Approval team evaluates offerings	Complianc e checklist and approval	workflow for	and complianc	quick and	verification may	Compliance and approval teams.	MVP

Step Definition	Actor Action	Frontstag e Touchpoi nt	ge	Backstage Service Actor	Backstage Touchpoi nt	Systems	Policies	Questions	Potential Pitfalls	Implementati on Owner	Proje ct Phase
	offering for review.		status.	for compliance.	tools.		for luxury services.	approvals?	users.		
Pricing and Payment		COTUM MOGO	Platform FAQ for guidance.	iream	Payment gateway integration	Pricing algorithms and invoicing systems.	Transpare nt pricing rules.	What dynamic pricing strategies can be implemente d?	Incorrect pricing may confuse consumers.	Finance and legal teams.	MVP
Step 6: Contract	accepts	signing	Helpdesk explains terms if needed.	contracts	Contract manageme nt system.	Itechnology	ce with local laws	What legal clauses need to be emphasized?	Providers may hesitate over terms.	Legal and compliance teams.	MVP
Step 7: Onboardi ng Training	an	Onboardin g training module.	Support provides live or recorded training.	team	Learning manageme nt system.	Training	Alignment with platform	What should be the training duration and format?	Low participation in training sessions.	Training and operations teams.	Future phase
Activation and	rovider 's offering	notificatio	Customer service handles live issues.	IT team ensures smooth publishing.	Offerings database.	Real-time	Ensure proper display of	How to monitor early activity post-listing?	attract initial		MVP

Step Definition	110001	•	<b>5</b> °	Backstage Service Actor	Backstage Touchpoi nt	Systems	Policies	Questions	Potential Pitfalls	Implementati on Owner	Proje ct Phase
	live.										

# Service Blueprint for Stage 2: Registration/Search and Booking of a Luxury Water Activity for High-Net-Worth Tourists

Step Definition	Actor Action	Frontsta ge Touchpo int	Frontstag e Service Actor		Backstag e Touchpoi nt	Systems	Policies	Questions	Potential Pitfalls	Implement ation Owner	Proj ect Phas e
II -	or logs	platform login page.	Customer support assists in case of issues.	seamless	authentica	Authenticati on system, user session managemen t.	complianc e, secure	ensure a smooth registration	complex	Platform engineering team.	MVP
Step 2: Profile Completion	Tourist provides preference s (e.g., activity type, dietary requireme nts).	Profile setup page.	lassists	nrocecee	User profile database.	Dynamic forms for capturing user preferences.	Data protection and retention policies.	What fields are critical for personalizat ion?	important fields,	Data team and UX design team.	MVP
Step 3:	Tourist	Search	Concierge	Search	Activity	AI-powered	Ensure	How to	Overwhelmi	Search and	MVP

Step Definition	Actor Action	Frontsta ge Touchpo int	Frontstag e Service Actor	Backstag e Service Actor	Backstag e Touchpoi nt	Systems	Policies	Questions	Potential Pitfalls	Implement ation Owner	Proj ect Phas e
Search for Activities	searches for activities via filters.	interface with filters (e.g., location, activity type).	chatbot suggests activities.	algorithm retrieves options based on criteria.		ation engine,	activities align with luxury positioning	simplicity and filter	ng options or irrelevant results.	AI teams.	
Step 4: Activity Selection	Tourist views activity details and selects an offering.	activity page (images,	provides additional informati on.	the activity	managem ent system	details,	Accurate, up-to-date activity description s.	How to ensure content consistency across listings?	Inaccurate details may reduce trust.	CMS and operations team.	MVP
Step 5: Booking the Activity	Tourist selects date, time, and number of participan ts.	calendar and form.	Concierge chatbot provides booking help.	processes booking	managem	checker.	Transparen t cancellatio n and refund policies.	handle peak	Double booking or availability errors.	Booking team and IT support.	MVP
	Tourist pays for the selected	gateway.	support resolves	reconciles	payment	currency support,	How to ensure smooth, secure	Payment failures or unauthorize d	Finance and IT teams.	MVP	

Step Definition	Actor Action	Frontsta ge Touchpo int	Frontstag e Service Actor	Backstag e Service Actor	Backstag e Touchpoi nt		Policies	Questions	Potential Pitfalls	Implement ation Owner	Proj ect Phas e
	activity.		issues.	and issues confirmati ons.		compliance.	payments?	transactions			
Confirmation and Itinerary Sharing	booking confirmati	tion screen	service assists with itinerary changes.	_	Notificati on and email	Automated itinerary generator, real-time notification scheduler.	Comply with communic ation preference s and GDPR.	tourists find the	or unclear	Notification system and email team.	MVP
Step 8: Pre- Rooking	additional details	support	Customer support resolves queries.	FAQs	knowledg	Chatbots, help desk systems.	Ensure quick response to queries.	responses may deter	1 1	Future phase	

# Service Blueprint for Stage 3: Preparations for Luxury Water Activity

Step Definition	Actor Action	Frontstag e Touchpoi nt	Frontstag e Service Actor	Backsta ge Service Actor	Backstage Touchpoin t		Policies	Questions	Potential Pitfalls	Implementa tion Owner	Proje ct Phas e
Activity Confirmati		Activity confirmati on page or email.	chatbot confirms details or	IT team ensures activity updates sync in real time.	manageme	booking	updates required.	How to ensure the itinerary is intuitive for tourists?	Incorrect details may cause confusion.	Booking and IT teams.	MVP
Special Requests Submission	(e.g., dietary	requests form in	acknowle dges and forwards to relevant	ns team forwards requests to	Provider communica tion dashboard.	cervice		How to prioritize urgent requests?	Missed or delayed requests impact experience.	Operations team.	MVP
on with Peer Producers	(e.g., vacht	updates	coordinate s with	Backend system updates provider schedule s.	manageme	Schedule synchroniza tion tools.	y policies and penalties	How to handle last-minute provider cancellati ons?	Cancellations disrupt activity flow.	Provider management team.	MVP

Step Definition	Actor Action	Frontstag e Touchpoi nt	Frontstag e Service Actor	Backsta ge Service Actor	Backstage Touchpoin t	Systems	Policies	Questions	Potential Pitfalls	Implementa tion Owner	Proje ct Phas e
	y and resources.										
Step 4: Equipment and Venue Preparatio n	water	Provider	team assists with	Quality control team verifies readiness	manageme	Inventory and maintenanc e logs.	Safety and quality standards.	How to streamline inventory checks?	Delays in preparation lead to activity disruptions.	Quality assurance team.	MVP
tion Coordinati	Arrange transport for tourists to activity location.	shared in	updates on	t vendor	Transport scheduling system.	Real-time GPS tracking, vendor coordinatio n tools.	to safety	mitigate	Late transportation affects activity schedule.	and	Futur e phase
	Ensure all equipmen t and activities comply with	about	support confirms to tourists about	Safety officer inspects equipme nt and venues.	checklist	Automated compliance checklists.	liability	measures	Missed compliance checks risk liability issues.	Safety and compliance teams.	MVP

Step Definition	Actor Action	Frontstag e Touchpoi nt	Frontstag e Service Actor	Backsta ge Service Actor	Backstage Touchpoin t	Systems	Policies	Questions	Potential Pitfalls	Implementa tion Owner	I II
	safety standards.		measures.								
	s) are briefed on	Staff notificatio n via provider app.	liaison confirms staff	manager	1 eam	Automated staff briefing system.	Ensure all instructions are clear and documente d.	How to ensure all staff are adequatel y trained?		Operations team.	MVP
Step 8: Tourist Reminders and Pre- Arrival Guidance	reminders and directions	Push notificatio ns, email reminders.	Chatbot confirms reminders were received.	system sends	Notificatio	Real-time notification scheduler.	GDPR- compliant communica tion policies.	How to make reminders engaging and useful?	Tourists may miss or misunderstand reminders.	Marketing and IT teams.	MVP

# Service Blueprint for Stage 4: Execution of Luxury Water Activity

Step Definition	Actor Action	Frontsta ge Touchpo int	Frontstage Service Actor	Backstage Service Actor	Backstag e Touchpoi nt	Systems	Policies	Question s	Potential Pitfalls	Implementat ion Owner	Proje ct Phase
Pickup of	Tourist boards arranged transport to the marina or yacht location.	App notificati on with transport details, transport vehicle.	Driver provides transport and updates status.	Transport coordinator ensures vehicles are on time and routes are optimized.		tracking,	ty and safety	How to handle last-minute delays?	delay the	Logistics and transport team.	MVP
Guests on Board	Tourist arrives and is greeted by crew with refreshme nts.	yacht	Crew members welcome guests and provide a safety briefing.	onboarding materials	Welcome kit preparatio n system.	Safety	safety	How to make the onboardi ng experienc	affect overall	Crew and quality assurance teams.	MVP
ion of Itinerary Activities	sports,	Activity areas on yacht, water sports equipmen t, or dining	-	ensures	Activity schedulin g dashboard	activity	nt with	How to ensure itinerary flexibility for last-minute changes?	Unplanned issues with equipment or schedule.	Crew, activity providers, and operations team.	MVP

Step Definition	Actor Action	Frontsta ge Touchpo int	Frontstage Service	Backstage Service Actor	Backstag e Touchpoi nt	Systems	Policies	Question s	Potential Pitfalls	Implementat ion Owner	Proje ct Phase
	relaxation)	_	assist with water sports).								
Step 4: Monitoring and Adjustments	activity	manara -	crew communica tes changes and adjusts accordingly	or future	•	Real-time communicat ion tools.	for itinerary	How to balance flexibility with resource constraint s?	dissatistacti	Crew and operations teams.	MVP
Drop-off to	to their destination	and app notificati	smooth	Transport coordinator monitors and confirms completion of trip.	Transport tracking system.	GPS and route tracking tools.	for safety and punctuali	How to ensure smooth transition s back to the hotel?	incorrect	Logistics team.	MVP
Notify Tourist of	Tourist accesses personaliz ed media from the activity.	on and activity	informs tourist about	Media team processes and uploads photos/vide os.	Media managem ent system.	Automated media processing tools.	policies for sharing tourist	How to maintain media quality and privacy?	Poor- quality uploads or unauthorize d sharing.	Media and IT teams.	MVP

Step Definition	Actor Action	Frontsta ge Touchpo int	Frontstage Service Actor	Backstage Service Actor	Backstag e Touchpoi nt	Systems	Policies	Question s	Potential Pitfalls	Implementat ion Owner	Proje ct Phase
Videos			content.								
Step 7: Thank You Message to Tourist	<del>*</del>	App notificati on, email, or SMS.	message and offers loyalty	message is	Notificati on system.	Automated CRM tools.	loyalty and	messages feel	Generic or delayed messages reduce impact.	Marketing team.	MVP
Step 8: Prompting for Activity Review	Tourist provides feedback on the activity.	App feedback form or post- activity survey.	Customer support resolves any negative feedback.	Operations team tracks and analyzes feedback for improveme nts.	Feedback analysis dashboard	and feedback analytics	Complian ce with GDPR for data usage.	encourag e review completio	Low response rates or overly critical reviews.	Customer support and operations team.	MVP

# Service Blueprint for Stage 5: Recommendation to Tourist

Step Definition	Actor Action	Frontstage Touchpoin t	Frontstage Service Actor	Backstage Service Actor	Backstage Touchpoin t		Policies	Questions	Potential Pitfalls	Implemen tation Owner	Proj ect Phas e
Aggregation and Analysis	activities	N/A (backstage process).	N/A.	activity,		AI and analytics engines.	GDPR and privacy regulations	How to ensure data privacy and accuracy in analysis?	Errors in data aggregation may lead to irrelevant recommend ations.	g and analytics	MV P
Step 2:	preferences,	N/A (backstage process).	N/A.	monitors external	database,	Trend analytics tools, real-time APIs.	Stay compliant with data usage policies for external feeds.	How to align recommend ations with current trends effectively?	Outdated trend analysis reduces recommend ation relevance.	Marketing and analytics teams.	MV P
Recommen dation	Generate personalize d activity recommend ations.	(backstage	N/A.	engine processes	dation algorithm	Machine learning systems, personali zation framewor ks.	Ensure algorithm transparen cy and explainabil ity.	How to balance personalizat ion with diversity in recommend ations?	Overly generic or repetitive suggestions reduce user engagement	AI and data science teams.	MV P

Step Definition	Actor Action	Frontstage Touchpoin t		Backstage Service Actor	Backstage Touchpoin t		Policies	Questions	Potential Pitfalls	Implemen tation Owner	Proj ect Phas e
Delivery of Personalize d Recommen	receives recommend ations for uncoming	App notification s, emails, or in-app messages.	Concierge chatbot or email assistant shares recommend ations.	.1	manageme	Automate d CRM, push notificati on tools.	Align communic ation with GDPR and opt-in preference s.	How to make recommend ations visually appealing?	Poor design or intrusive notification s may annoy users.	Marketing and IT teams.	MV P
Feedback on Recommen	recommend ations and	App feedback form or quick rating tool.	Customer support collects additional feedback if needed.	retines	Feedback database.	Survey tools, feedback managem ent system.	GDPR complianc e for feedback data.	How to incentivize feedback submission?	Low response rates affect refinement of recommend ations.	Feedback and analytics teams.	Futu re phas e
Conversion Support	books recommend ed	Booking interface with prefilled recommend ations.	Concierge chatbot provides booking assistance.	processes	Booking manageme	Real-time availabilit y and booking tracker.		How to handle bookings for high-demand activities?	High drop- off rates if booking flow is not seamless.	Booking team and IT support.	MV P
Loyalty Program Integration	earns loyalty points or	App or email notification s about loyalty	CRM notifies tourist about benefits and	updates loyalty	Loyalty manageme nt system.	Loyalty program engine, real-time point	Ensure transparen cy and accuracy of	How to gamify loyalty for better engagement	Errors in loyalty points calculation.	CRM and loyalty program teams.	Futu re phas e

Step Definition	Actor Action	 Frontstage Service Actor		Backstage Touchpoin t		Policies	Questions	Potential Pitfalls	tation	Proj ect Phas e
	for engaging with recommend ations.	next steps.	records.		tracker.	rewards.	?			

# Key Components for Stage 5

### 1. Frontstage Touchpoints:

- o Notifications via app and email.
- o Recommendation interface within the app or website.
- o Feedback forms to refine recommendations.

# 2. Backstage Systems:

- o AI-driven recommendation engine.
- o Customer analytics database for historical and preference-based data.
- o Trend and market analysis tools integrated with external APIs.

#### 3. Policies:

- o Strict compliance with GDPR and privacy laws.
- o Transparency in algorithm usage.
- o Opt-in and opt-out capabilities for communication preferences.

# 4. Implementation Ownership:

- o Data engineering for aggregating and cleaning data.
- o AI and data science teams for recommendation generation.
- o Marketing team for notification design and engagement strategies.

## 5. **Project Phase**:

- o MVP will include basic recommendation capabilities.
- o Advanced gamification and loyalty integration planned for future phases.

# Instructions to Replit

"Build a cross-platform mobile application using React Native for Etoile Yachts, a luxury service platform for high-net-worth individuals. The app should include features for registration, search and discovery, booking, payments, real-time notifications, reviews, and loyalty programs. Ensure integration with Stripe, Google Maps API, and Firebase for core functionalities. Use AI to power recommendations and dynamic pricing. Follow the service blueprint for UI/UX and prioritize scalability and security."