deti universidade de aveiro
departamento de eletrónica, telecomunicações e informática

IEETA

voyage

a trip made for you

Group 4
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Advisors
Osvaldo Pacheco
Daniel Ferreira

PROBLEM

- **Lack of local knowledge**

  Travelers often struggle to plan personalized trips due to a lack of local knowledge

- **Overwhelming number of choices**

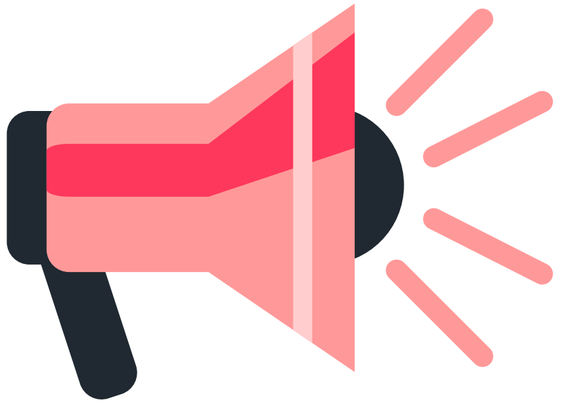
  The vast number of online options leads to decision fatigue, making it difficult to select activities that best align with the user's vision

- **Finding and planing activities aligned with their preferences**

  It can take a lot of time and be very tedious to plan activities aligned with your preferences in a local you don't know

MAIN FEATURES

- Personalized trips with the user preferences
- Individual & Group Trips
- 3 Types of Trips



Visit Place

Road Trip

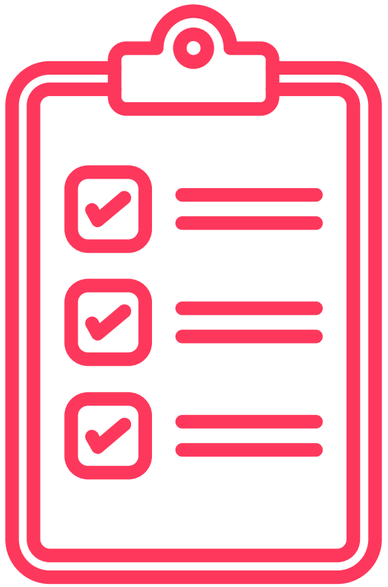
Zone Trip

STATE OF THE ART

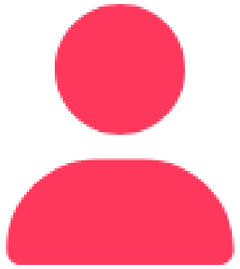
Service	Layla AI	Wonderplan	Mindtrip	**Voyage**
Budgeting	✓	✓	✓	✓
Trip planning	✗	✓	✓	✓
Zone Setting	✗	✗	✓	✓
Group Planning	✗	✗	✓	✓
Reusable Preferences Profile	✗	✗	✗	✓

FUNCTIONAL REQUIREMENTS

- **Personalized Trip Management**
  - Create and manage individual or group trips with preferences.
  - Edit trips and manage group members.
  - View past trip history.
- **User Profiles & Social Features**
  - Share profiles, manage friend requests & update privacy settings.
  - View friends' travel stats.
- **Place Management**
  - Save favorite places.
  - Admins can remove invalid places.



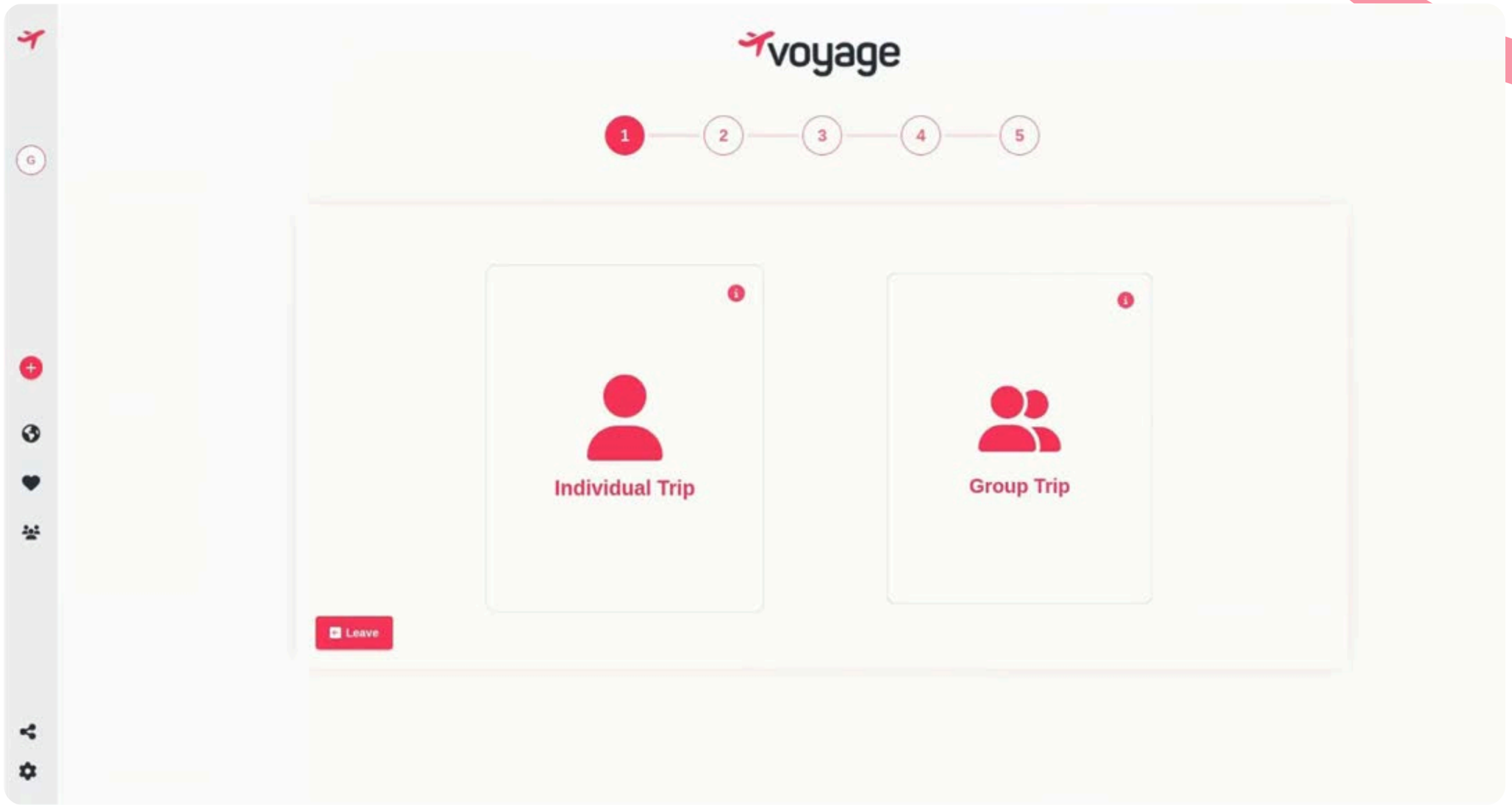
USE CASE



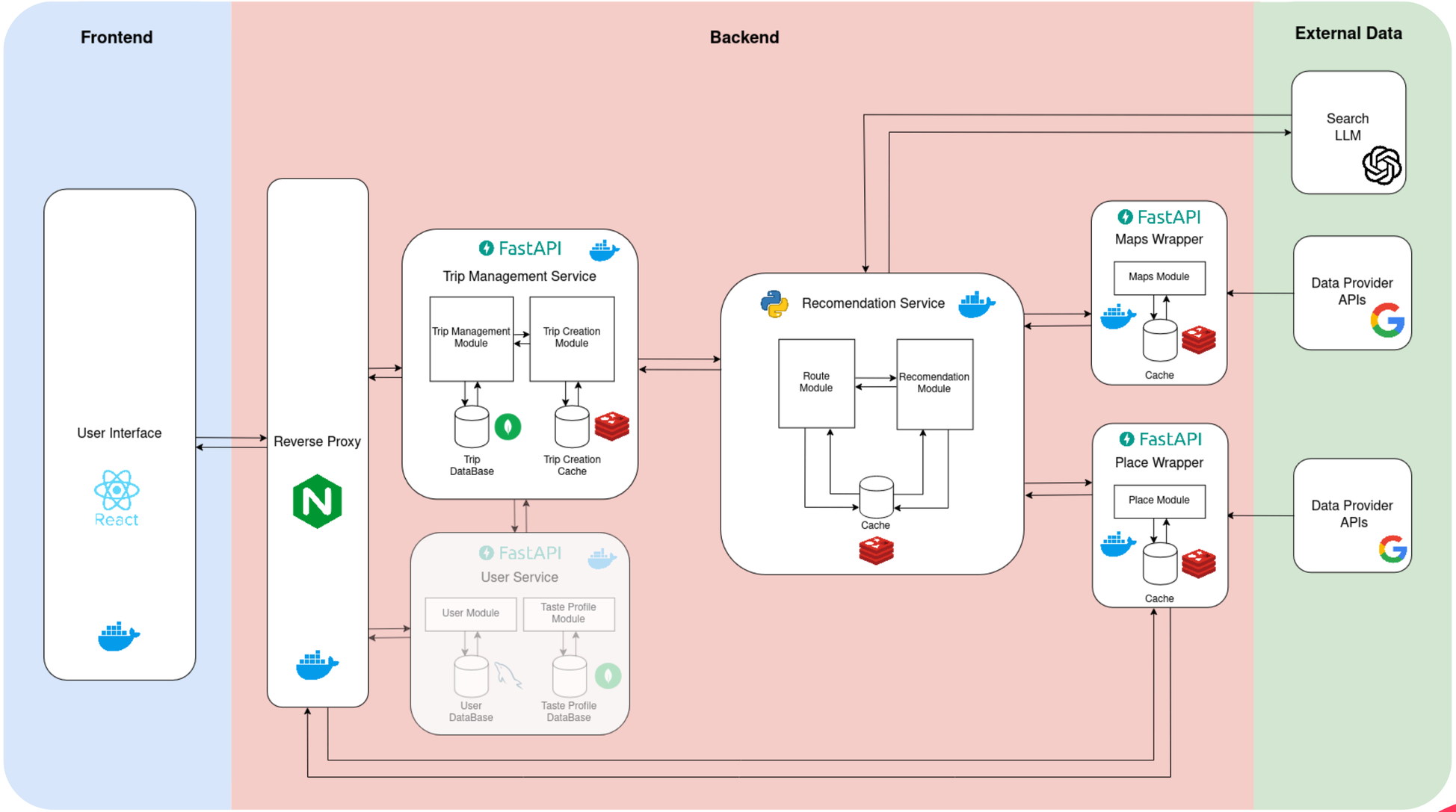
Individual Trip

Visit Place

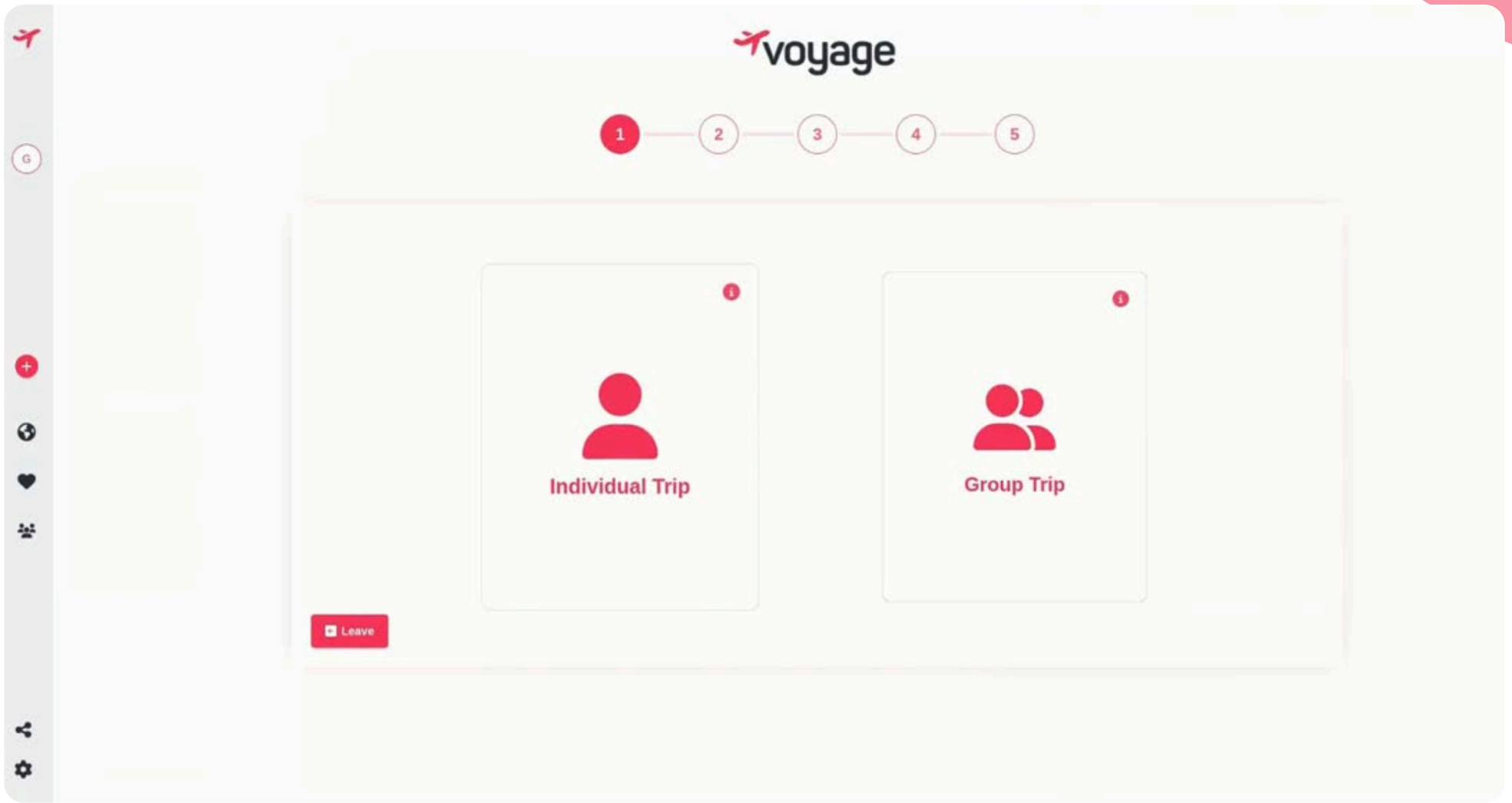
DEMO



ARCHITECTURE



WORKFLOW



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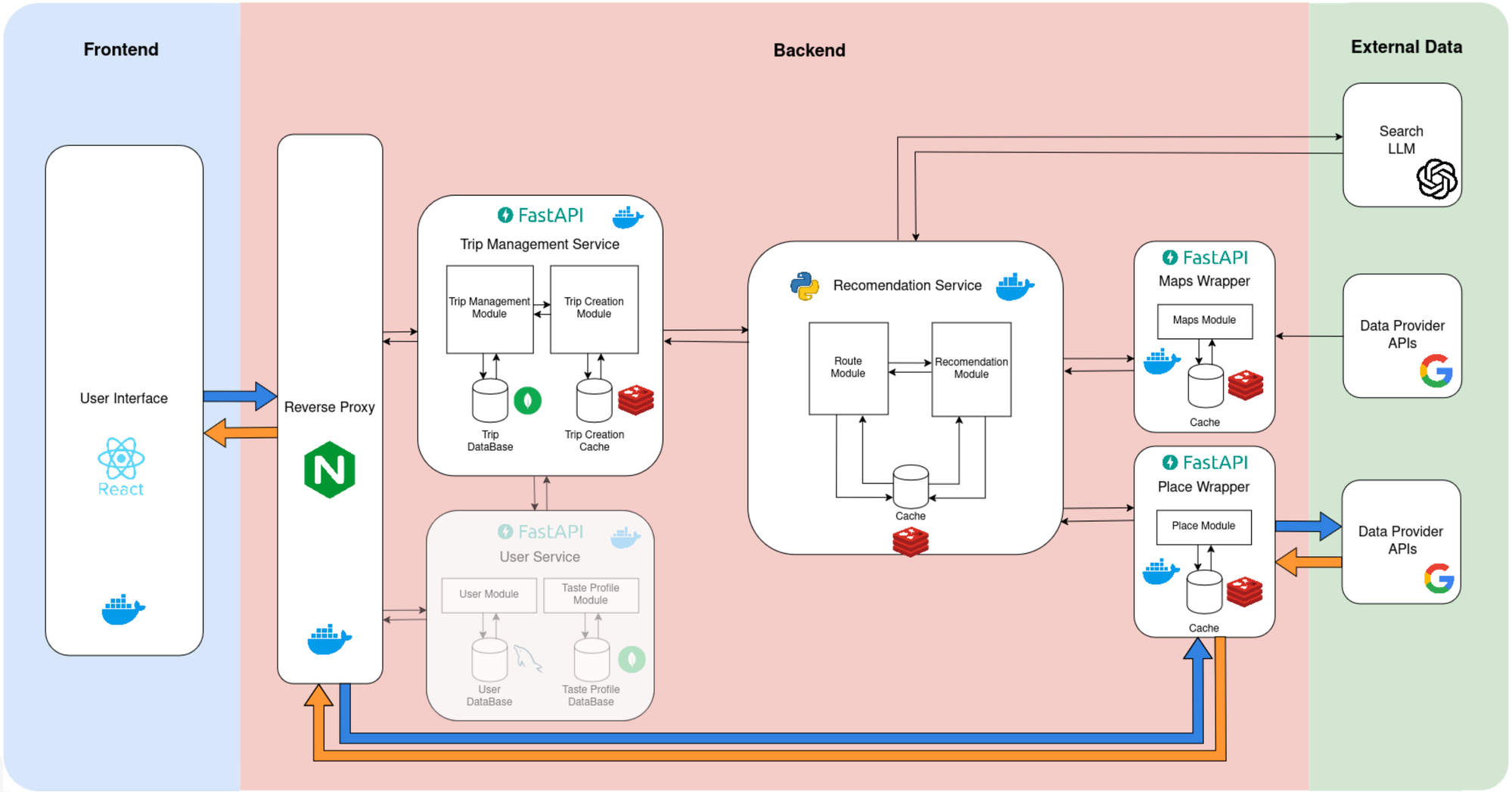
Frontend
Backend
External Data
User Interface
React
Reverse Proxy
FastAPI
Trip Management Service
Trip Management Module
Trip Creation Module
Trip DataBase
Trip Creation Cache
FastAPI
User Service
User Module
Taste Profile Module
User DataBase
Taste Profile DataBase
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Place Wrapper
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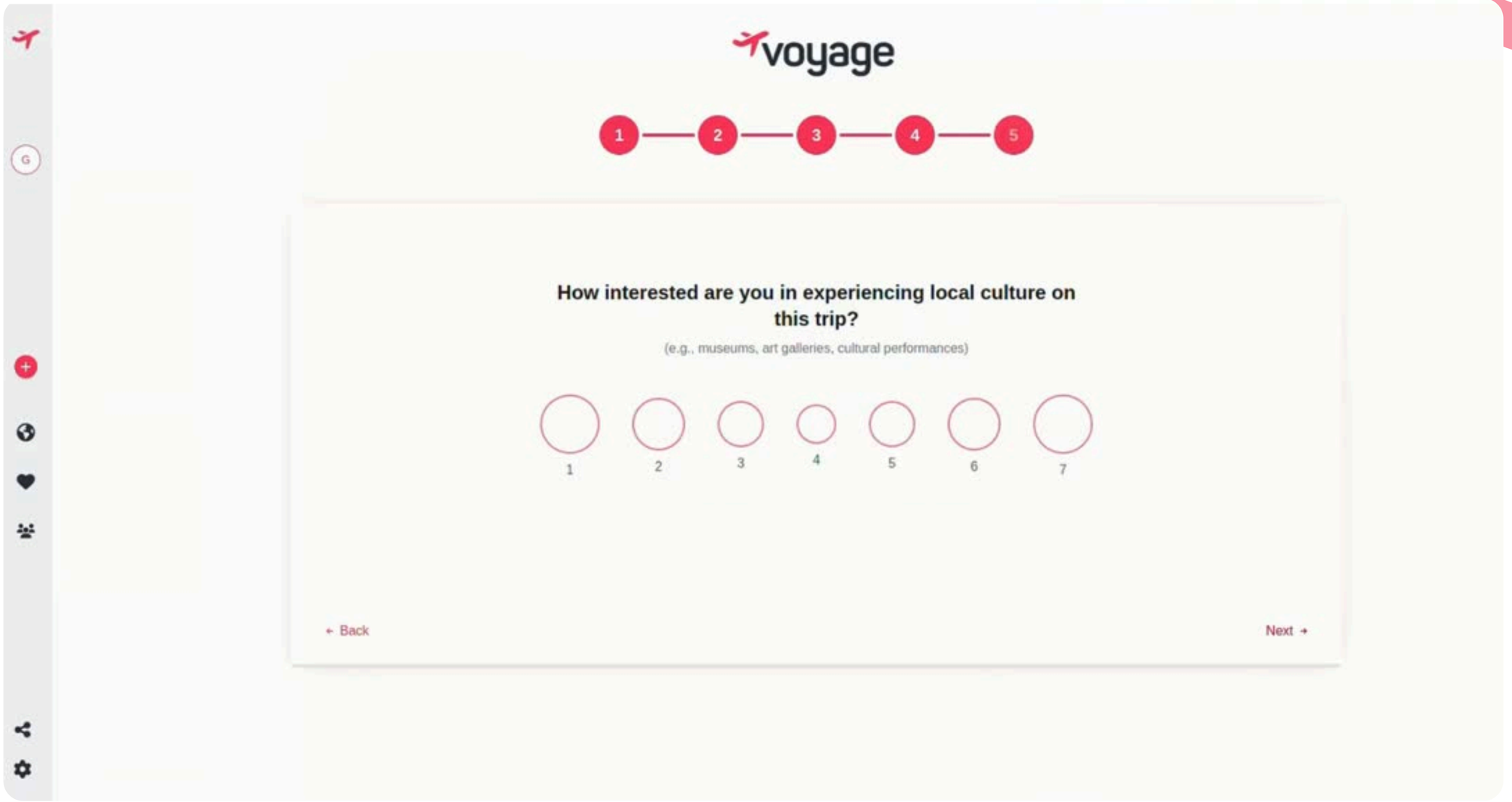
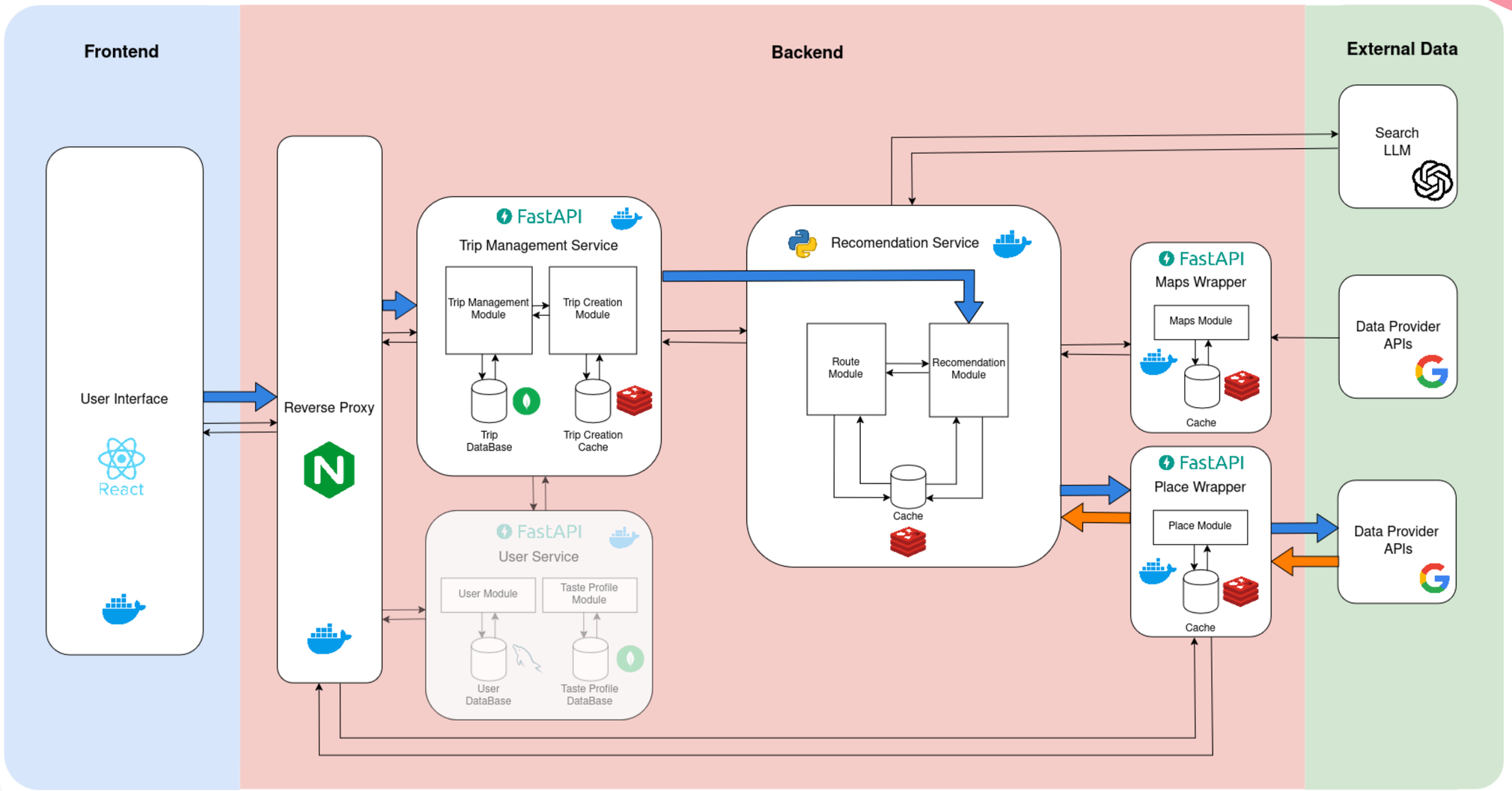
Search LLM
Data Provider APIs
Data Provider APIs

WORKFLOW


voyage
1
2
3
4
5
How interested are you in experiencing local culture on this trip?
(e.g., museums, art galleries, cultural performances)
1
2
3
4
5
6
7
← Back
Next →

WORKFLOW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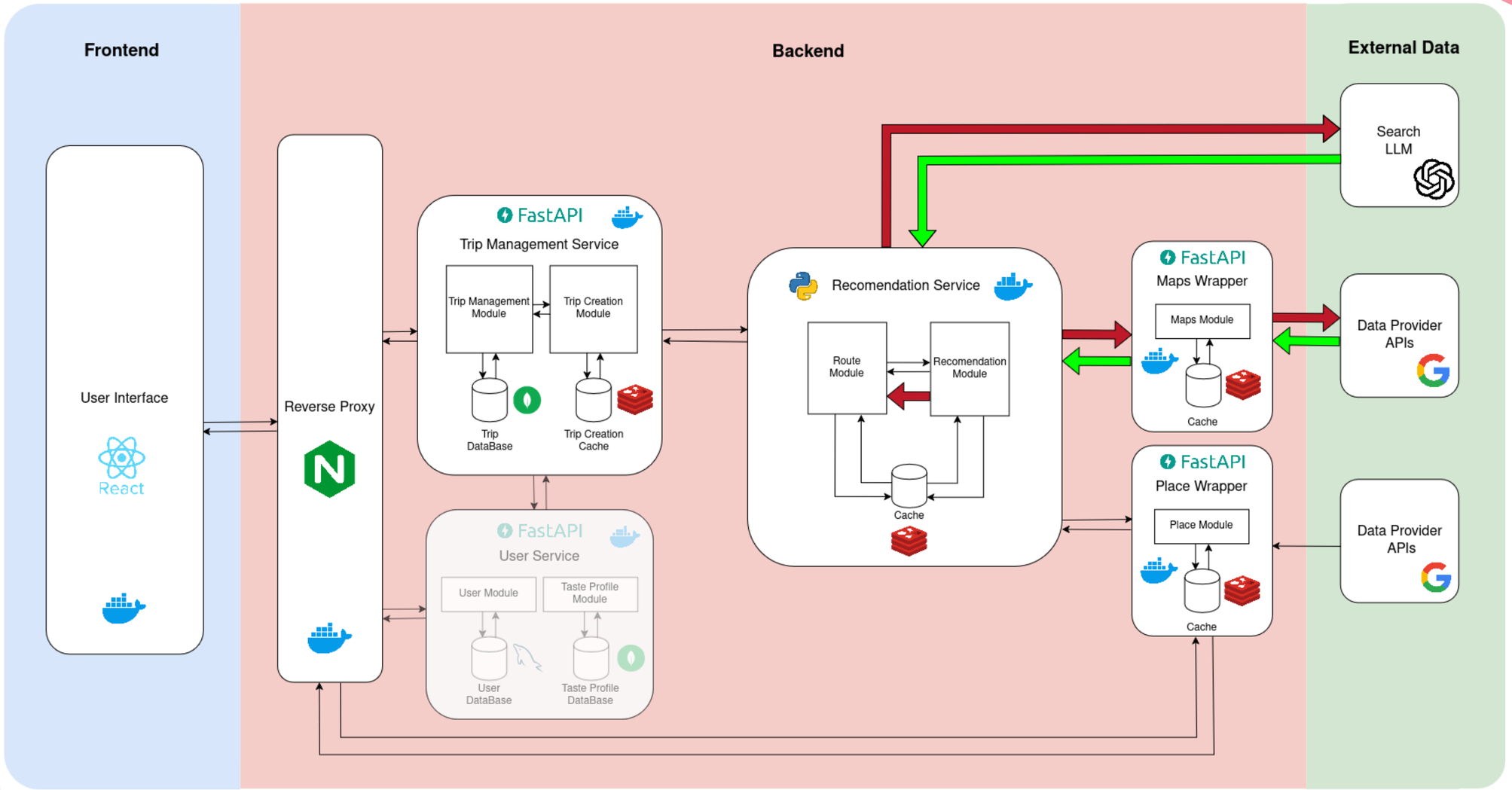
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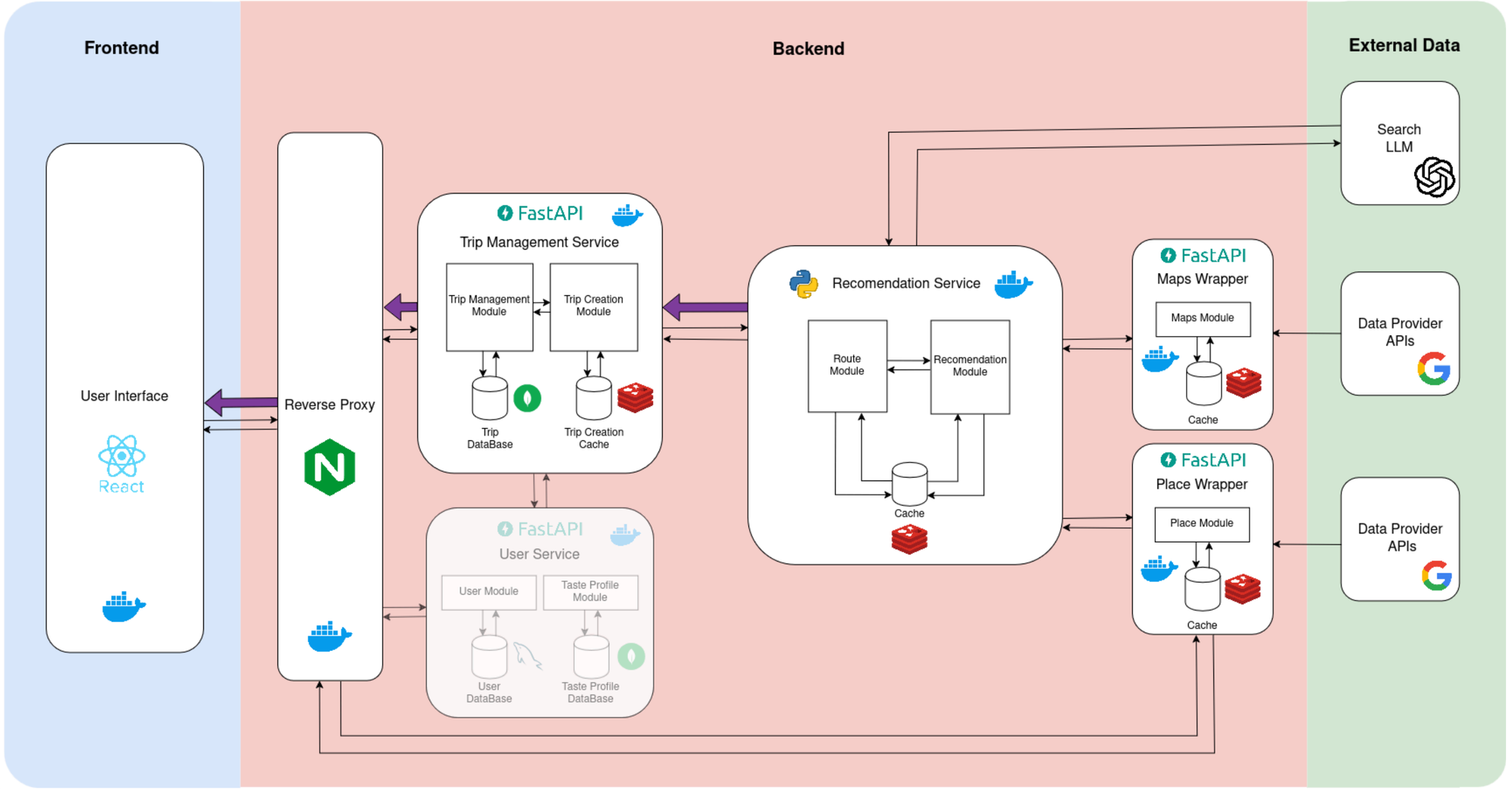
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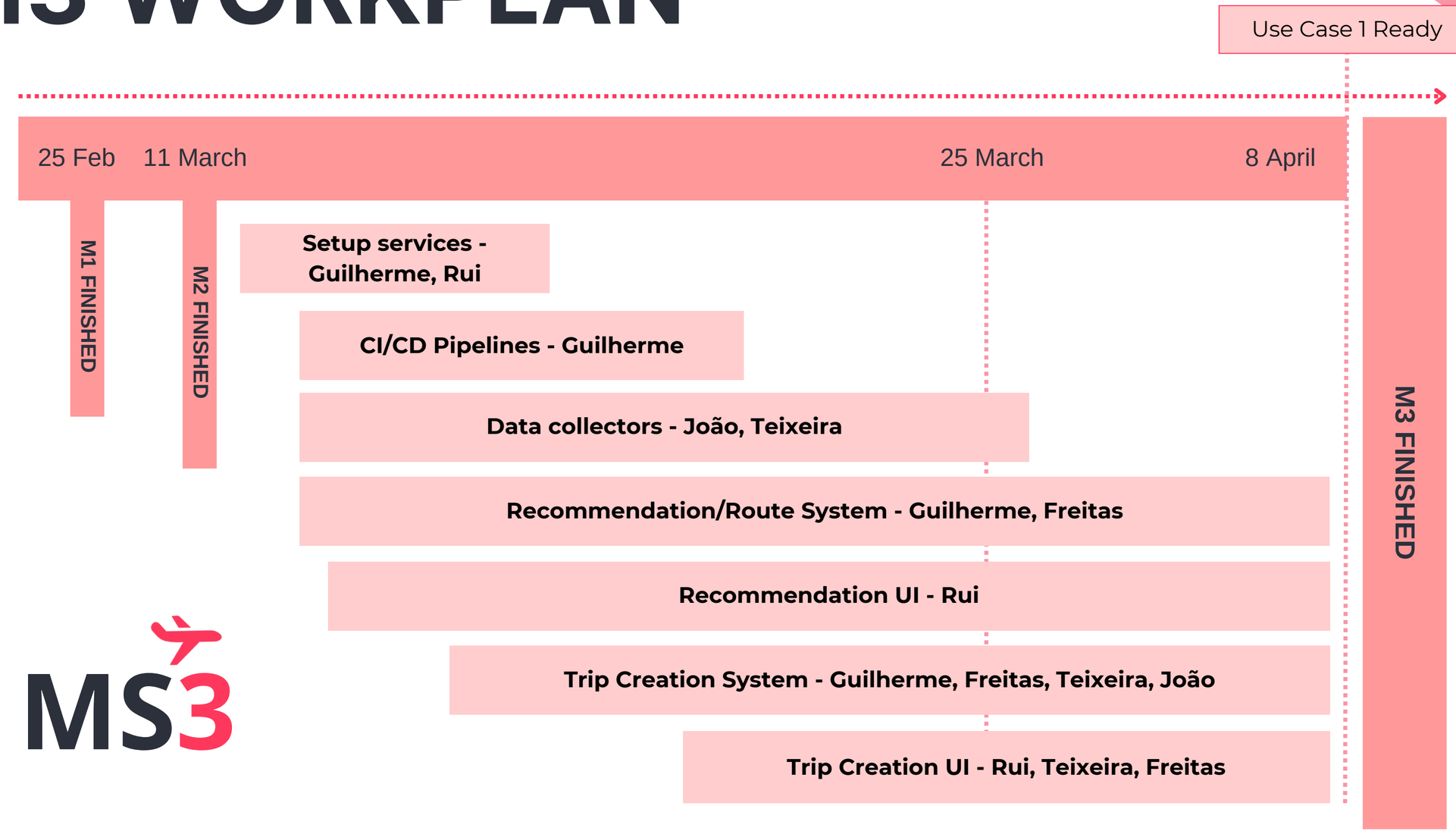
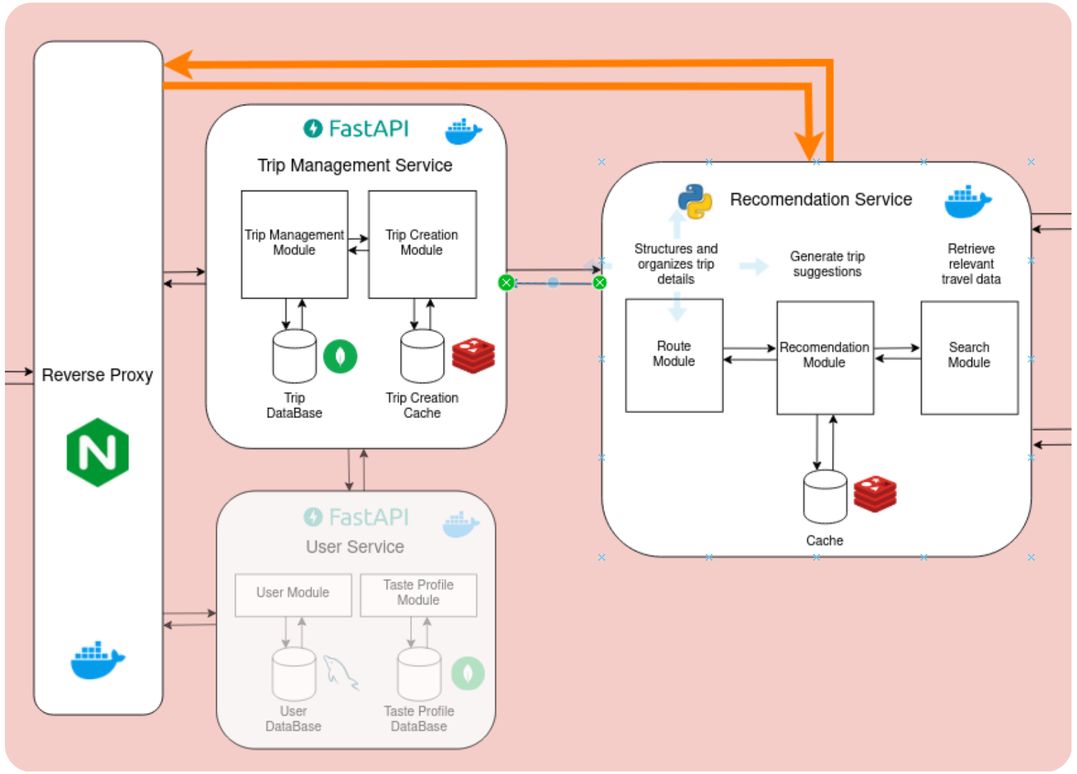
M3 WORKPLAN

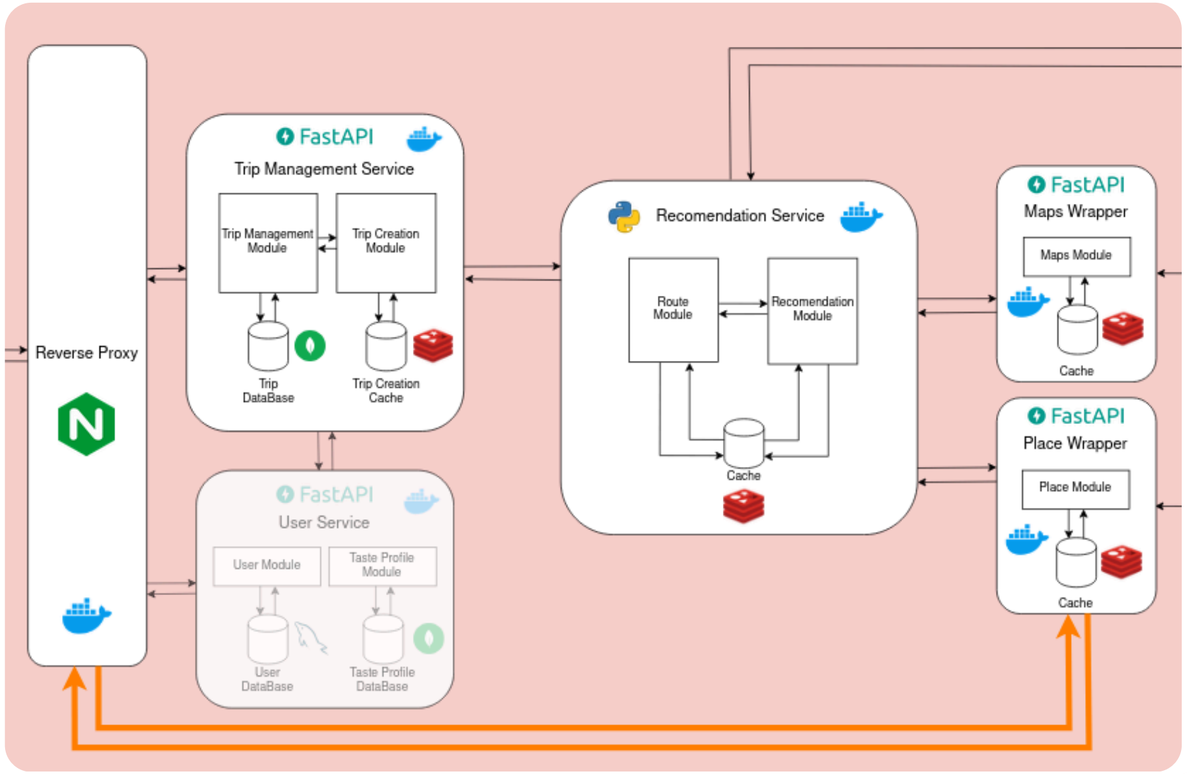


MS3

ARCHITECTURE CHANGES

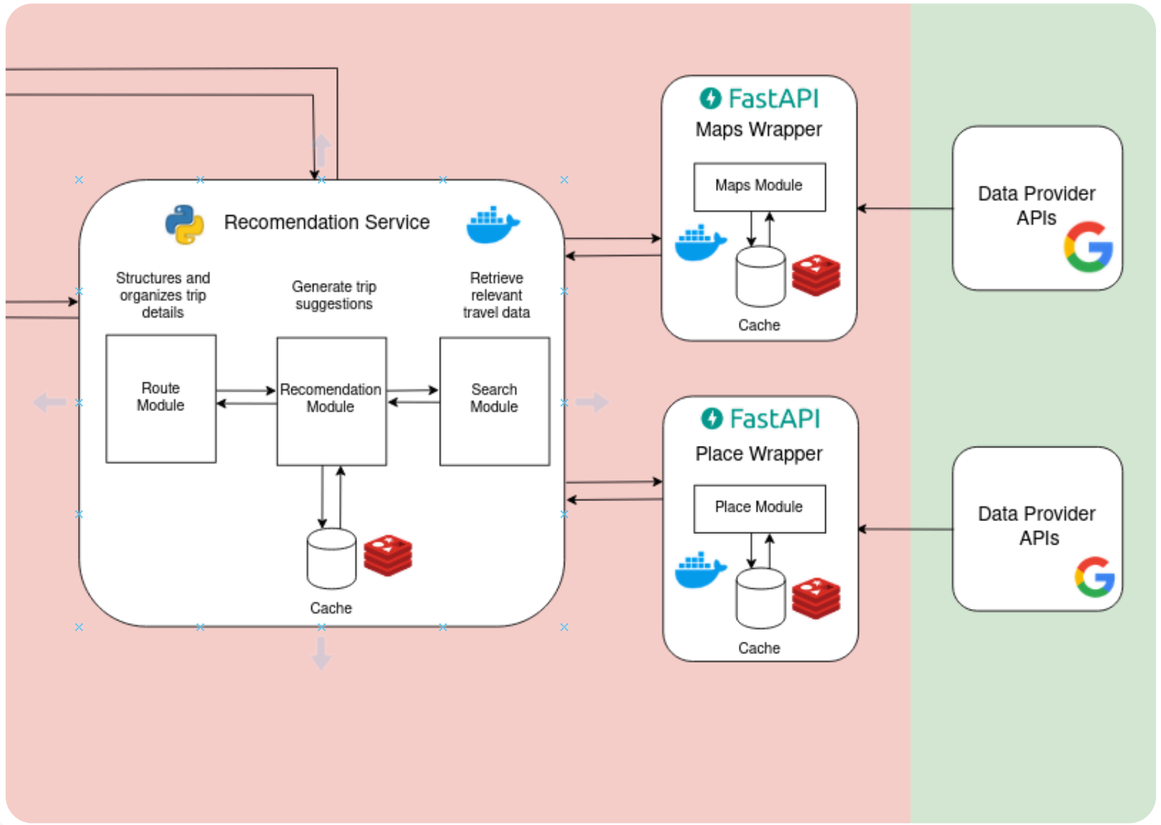


M2



M3

ARCHITECTURE CHANGES



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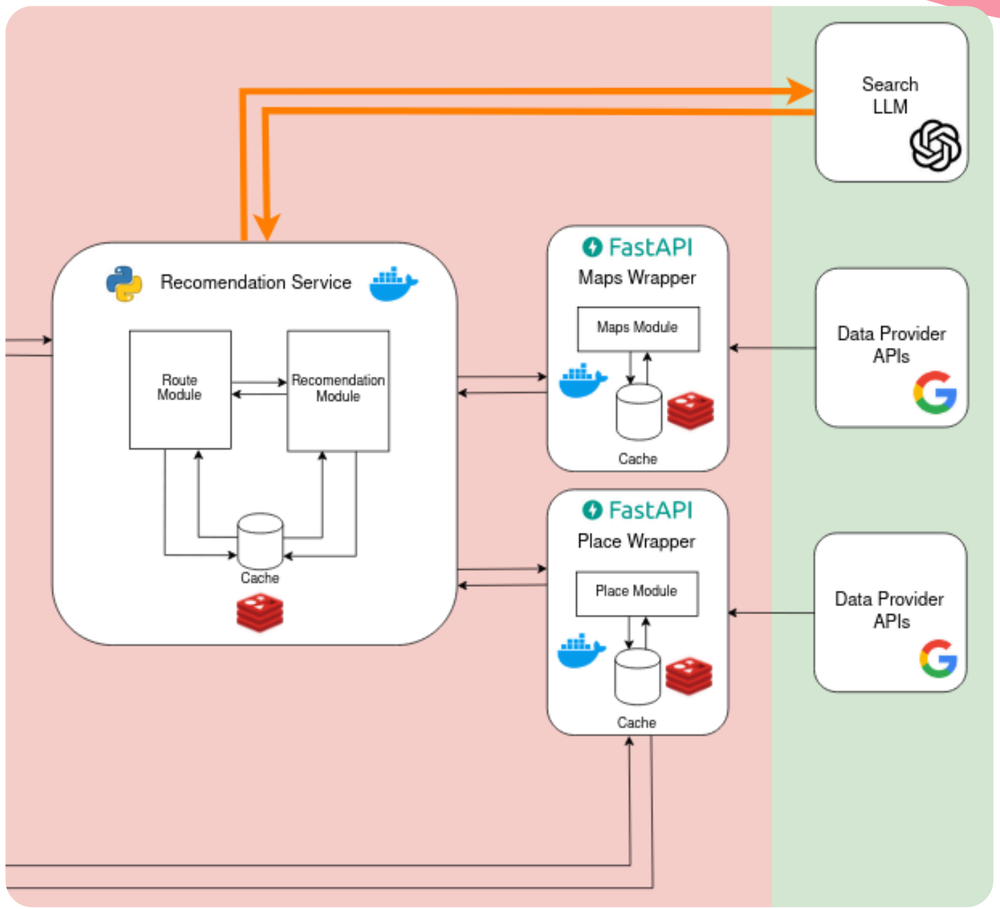
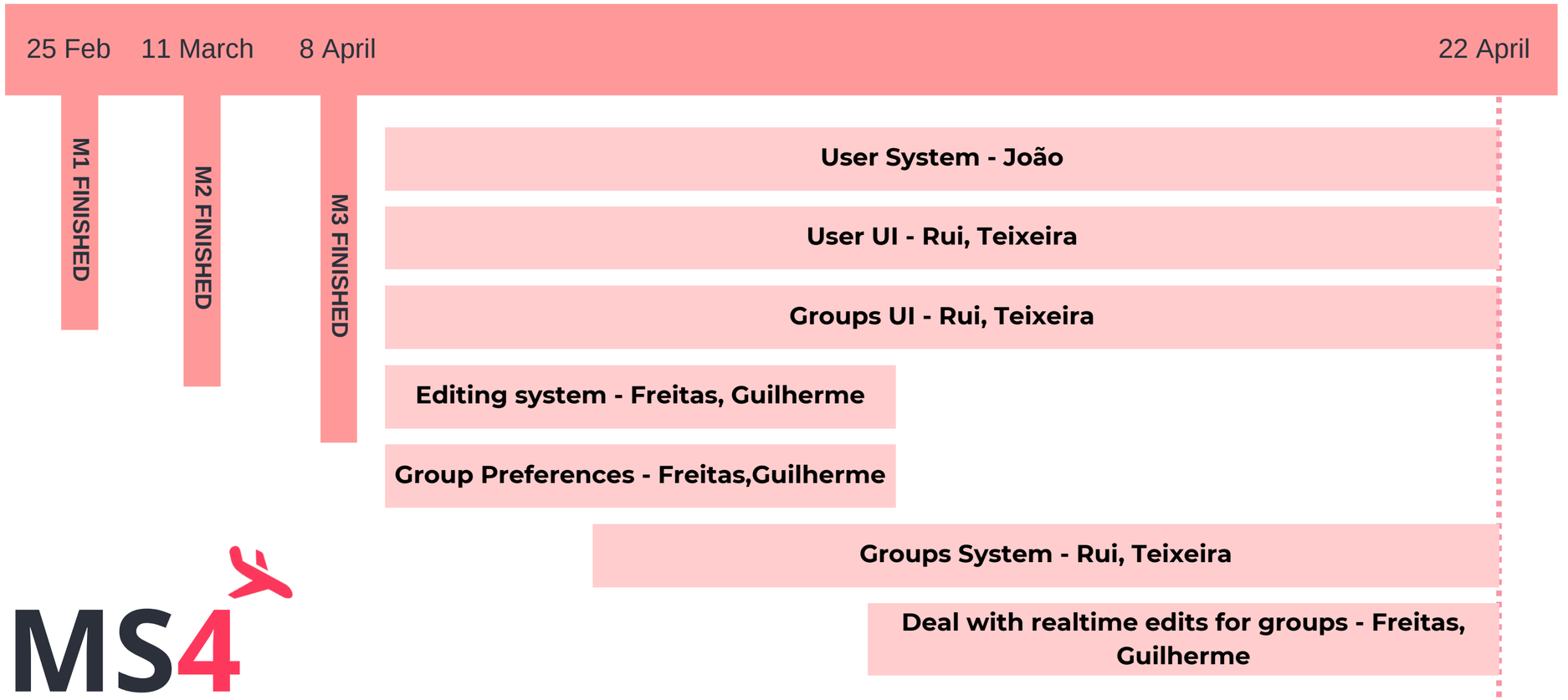


M3

WHAT WE LEARNED

- The need to have an LLM to improve activity schedueling
- Interaction with Google Places API, Routes API...
- Multi service development environment
- Setup and Configure Production Environments

M4 WORKPLAN

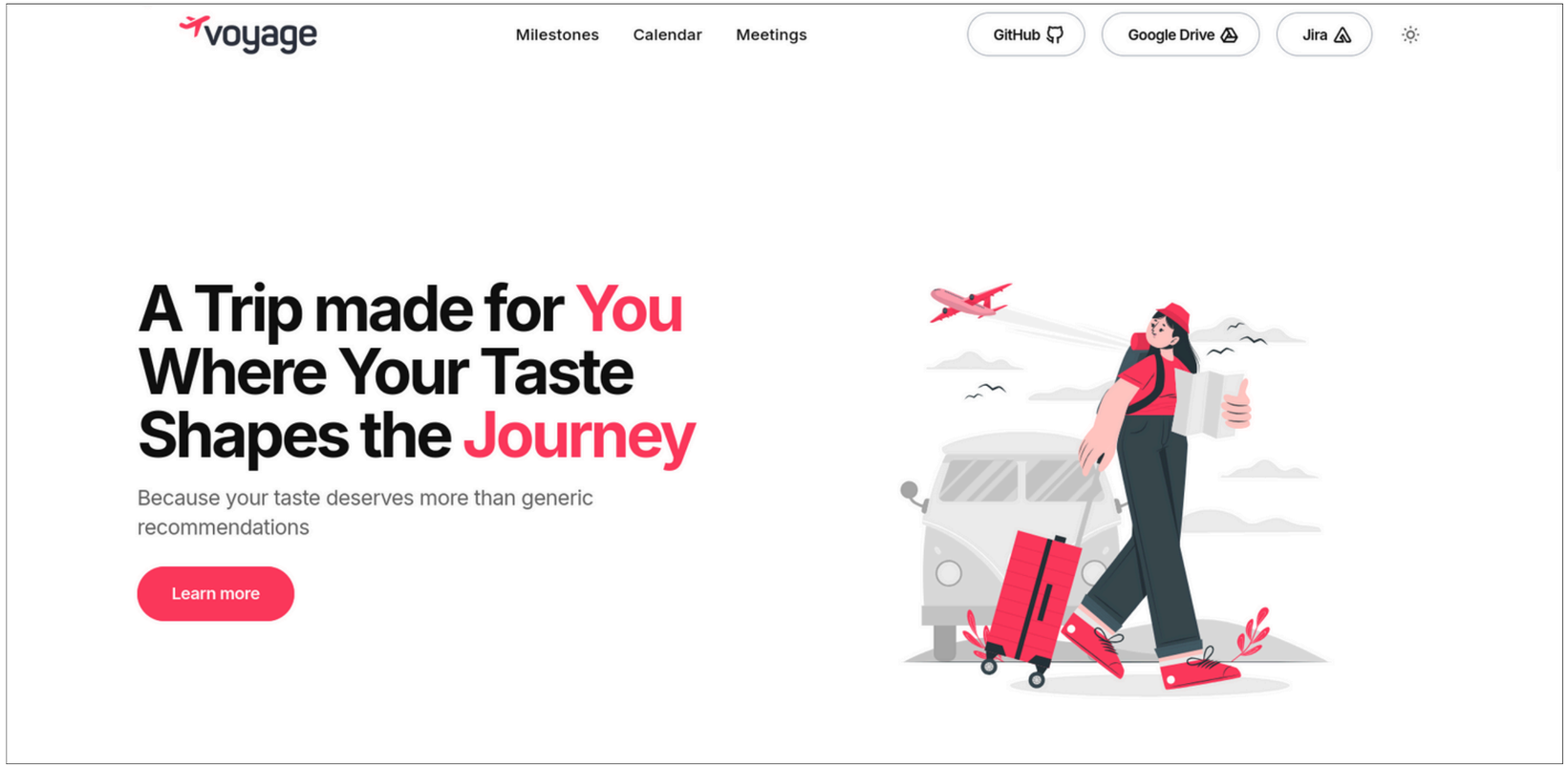


MS4

M4 BACKLOG

VOYAGE-9	Group - Place,Zone: Create a itinerary based on a single group preferences	MS4	TO DO	-	
VOYAGE-4	Edit recommendation in an itinerary	MS4	TO DO	-	
VOYAGE-137	Create the user system	MS4	TO DO	-	J
VOYAGE-138	Create the basic operations for the user interaction	MS4	TO DO	-	J
VOYAGE-139	Created trips are saved in the user's trips	MS4	TO DO	-	HT
VOYAGE-140	Allow for the creation of groups and basic operations	MS4	TO DO	-	HT
VOYAGE-141	Develop the UI for user creation	MS4	TO DO	-	RM
VOYAGE-142	Develop the UI for group creation and interaction	MS4	TO DO	-	RM
VOYAGE-143	Allow for regeneration of an itinerary	MS4	TO DO	-	HF
VOYAGE-144	Regenerate an activity in an itinerary	MS4	TO DO	-	GR
VOYAGE-145	Regenerate route after itinerary edit	MS4	TO DO	-	HF
VOYAGE-146	Deal with realtime edits for group	MS4	TO DO	-	GR
VOYAGE-147	Put trip id in the url	MS4	TO DO	-	HT
VOYAGE-148	Add edit functionality in the UI	MS4	TO DO	-	RM

Thank you!



https://voyage-pi.github.io/

voyage

a trip made for you

www.voyage-pi.com