

# Routier-Use Case Documentation

1)

**Title:** Create Routier Account

**Actors:** New User

**Goal:** To create a Routier account in order to personalize my trip planning experience.

**Precondition:**

- The user has access to the Routier platform's registration page.
- The user has a stable internet connection.
- The user is not already registered with the Routier platform using the same email address.

**Trigger:** The user decides to create a Routier account.

**Main Scenario:**

1. The user accesses the Routier platform's registration page.
2. On the registration page, the user is prompted to enter the following information:
  - Name
  - Email address
  - Password
3. The user enters valid information into the required fields.
4. The user submits the registration form.

**Extension :**

- 1.1 If the registration page is not accessible (e.g., due to server issues), display an error message and allow the user to retry.
- 4.1 If the user enters invalid information during registration (e.g., an invalid email address or a password that doesn't meet security requirements), display an error message and allow the user to correct the errors.
- 4.2 If the user tries to register with an email address that is already associated with an existing account, display an error message informing them that the email address is already in use.
- 4.3 In case of any technical issues during registration or account creation, display an error message and provide the user with a means to contact customer support for assistance.

**Post Conditions:**

- The user's account is created, and they can log in to personalize their trip planning experience.

**Special Requirements:**

- User: Responsible for providing accurate information during registration and updating their preferences as needed.

2)

**Title:** Document and Share Trip Journal

**Goal:** To document my trip experiences and share them with friends and family.

**Precondition:**

- The user has an active account on the platform.
- The user has completed a trip and wishes to document it.
- The user has the necessary photos and captions ready for the trip journal.

**Trigger:** The user decides to create and share a trip journal.

**Actors:**

- User (Traveler)

**Main Scenario:**

1. The user, a traveler, logs into their platform account.
2. The user creates a trip journal either during or after their trip
3. The trip journal allows the user to add entries, including photos and captions, to document their trip experiences.
4. The user can edit their trip journal, adding or modifying entries as needed until they are satisfied with the content.
5. After completing their trip journal, the user can choose privacy settings:
  - Make the trip journal public: This allows anyone to view the journal.
  - Share it with specific contacts: The user can select specific individuals (friends and family) to share the journal with.
6. The user can change the privacy settings of their trip journal at any time, even after it has been shared.

**Extensions:**

- 1.1: If the user encounters issues while creating the trip journal (e.g., technical problems or difficulty uploading photos), provide appropriate error messages and assistance to resolve the issues.

**Post Conditions:**

- The user's trip journal is successfully documented and shared according to the chosen privacy settings.
- Friends and family, or the public, can view the shared trip journal as a chronological story with photos and captions.

**Special Requirements:**

- User (Traveler): Responsible for creating and managing their trip journal, choosing privacy settings, and sharing it with specific contacts or making it public.

3)

**Title:** Access Real-Time Information on Routier

**Goal:** To access real-time information through Routier, including weather updates, local events, and sudden changes in attraction opening hours, in order to make informed decisions, adjust plans accordingly, and have a smooth travel experience.

**Precondition:**

- The user is a traveler using the Routier app during their trip.

**Trigger:** User wants to access real-time information on Routier.

**Actors:** Traveler

**Main Scenario:**

1. The traveler opens the Routier app during their trip.
2. The app's home screen prominently displays real-time weather updates for the current location.
3. The traveler can navigate to a "Local Events" section within the app to view ongoing events in the area.
4. Routier's notification system promptly informs the traveler about any sudden changes in attraction opening hours, ensuring they stay informed about closures or adjustments.
5. Weather, events, and opening hour information is updated in real-time, keeping the traveler well-informed throughout their journey.
6. The traveler can customize their notification preferences, choosing to receive updates for weather changes, events, or opening hour adjustments.

**Extensions:**

**Post Conditions:**

- The traveler can access real-time information on Routier, including weather updates, local events, and sudden changes in attraction opening hours.
- The traveler can make informed decisions and adjust plans based on the real-time information provided by Routier.
- The traveler can have a smooth travel experience with up-to-date information at their fingertips.

**Special Requirements:** Routier should ensure that real-time information is prominently displayed, and the notification system operates promptly to provide timely updates to the traveler. Customizable notification preferences should also be available within the app.

4)

**Title:** Set Travel Budget Range

**Goal:** To set a preferred budget range for travel expenses within the Routier app, ensuring that recommendations align with financial preferences.

**Precondition:**

- The user has completed a trip and is using the Routier app.

**Trigger:** User wants to set their travel budget range.

**Actors:** User

**Main Scenario:**

1. The user accesses the budget setting feature within their profile on the Routier app.
2. Within the budget setting feature, the user can set both a minimum and maximum budget range for their trip expenses.
3. The app's algorithm considers the specified budget range when generating recommendations.
4. Recommendations that exceed the user's budget range are clearly marked.
5. Any changes made to the budget range are saved automatically.
6. The user receives real-time feedback on how their budget choice impacts the recommendations.
7. The app gracefully handles errors or unexpected inputs with helpful messages.

**Post Conditions:**

- The user has successfully set their preferred budget range for travel expenses within the Routier app.
- Routier's recommendation system takes the user's budget range into account when generating travel suggestions.
- The user can view recommendations that align with their specified budget range.
- Any changes to the budget range are saved and applied to future recommendations.

**Special Requirements:** The Routier app should ensure that the budget setting feature is easily accessible within the user's profile and provide clear feedback on how the budget choice impacts recommendations. Additionally, it should handle errors and unexpected inputs gracefully with informative messages.

5)

**Title:** Prompt Users to Rate and Review Places Visited

**Goal:** To prompt users returning from a trip to rate and review the places they visited on Routier, contributing to app improvement and helping fellow travelers make informed decisions based on shared experiences.

**Precondition:**

- The user has completed a trip and is using the Routier app.

**Trigger:** User returns from a trip and Routier prompts them to rate and review places visited.

**Actors:** Traveler

**Main Scenario:**

1. The traveler returns from a trip and opens the Routier app.
2. Routier displays a prompt encouraging the user to provide feedback by rating and reviewing the places they visited.
3. The user has the option to rate and review multiple places they visited during the trip.
4. The user can provide ratings and detailed reviews for each place visited.
5. The feedback provided by the user is used to enhance the app and help future travelers make well-informed decisions based on shared experiences.

**Extensions:**

**Post Conditions:**

- The user has been prompted to rate and review the places they visited on Routier after completing their trip.
- The user can contribute their ratings and reviews to the app's feedback mechanism.
- Routier uses the feedback for ongoing app improvements.
- Fellow travelers can access the ratings and reviews to make informed decisions about the places they plan to visit.

**Special Requirements:** Routier should provide a user-friendly and easily accessible prompt for rating and reviewing places visited after the user returns from their trip. The feedback mechanism should support the app's ongoing enhancements and be available for users to contribute their experiences.

**6)**

**Title:** View Tailored Recommendations for a Chosen Destination

**Goal:** To see a tailored list of recommended places to visit, activities, and attractions specific to the chosen destination, in order to efficiently plan the trip and make the most of it.

**Precondition:**

- The user has registered or logged into the platform with a valid account.
- The user has provided their travel preferences, interests, preferred destinations, and experience types.

**Trigger:** User selects a destination they plan to visit.

**Actors:** User (Traveler)

**Main Scenario:**

1. The traveler logs into the platform with their valid account.
2. The traveler provides accurate travel preferences, interests, preferred destinations, and experience types.
3. The traveler selects a destination they plan to visit.
4. The platform displays a tailored list of recommended places to visit, activities, and attractions based on the provided information.

**Extensions:**

- The user has the option to modify their travel preferences, interests, or experience types, which can trigger the platform to update and refine the recommendations accordingly.

**Post Conditions:**

- The traveler can view a tailored list of recommended places to visit, activities, and attractions specific to their chosen destination.
- The traveler can explore recommendations, filter or sort them based on different criteria, and view detailed information about specific recommendations.

**Special Requirements:** The platform should continuously learn from the user's interactions and feedback to improve the relevance and accuracy of recommendations over time.

7)

**Title:** Get Directions to Recommended Places

**Goal:** To have the option to get directions to each recommended place from the user's current location, ensuring a hassle-free experience in finding the places.

**Precondition:**

- The user has provided permission for the application to access their current location.
- The user has received recommendations for places to visit within the application.

**Trigger:** User selects a recommended place they want directions to.

**Actors:** User, Mapping Service, GPS Service

**Main Scenario:**

1. The user opens the application.
2. The user reviews the recommendations for places to visit.
3. The user selects a recommended place they want directions to.
4. The system displays detailed information about the selected place.
5. The "Get Directions" option is clearly visible on the screen.
6. The user taps the "Get Directions" option.
7. The system calculates the route from the user's current location to the selected place using the Mapping Service.
8. The system provides the user with a visual map of the route and spoken instructions for each step of the route.
9. The user follows the provided directions to reach the recommended place.

**Extensions:**

- After selecting a recommended place on the map, the user decides to choose a different place.
  1. The user repeats steps 4 to 6 for the new selection.
  2. The system calculates a new route from the user's current location to the newly selected place.
  3. The user follows the provided directions for the new selection.
- If the user changes their mind and does not proceed with the navigation:
  1. There should be a clear way to cancel the navigation request.

**Post Conditions:**

- The user can access directions to recommended places from their current location.
- The user can initiate navigation to a selected recommended place.
- The user can cancel the navigation request if they decide not to proceed.

**Special Requirements:** The navigation interface should be user-friendly, providing clear visual cues and spoken instructions for each step of the route.

8)

**Title:** Receive Notifications and Reminders for Travel Plans

**Goal:** To receive notifications and reminders about upcoming trips, reservations, and suggested activities through the Routier app, in order to effectively manage travel plans and make the most of the journey.

**Precondition:**

- The user has created an account and provided the necessary travel information.
- The user has upcoming trips, reservations, or suggested activities associated with their account.

**Trigger:** User's upcoming trip, reservation, or suggested activity is approaching.

**Actors:** User (Traveler)

**Main Scenario:**

1. The traveler logs into the Routier app.
2. The traveler reviews their upcoming trips, reservations, and suggested activities.
3. The traveler receives timely notifications and reminders for the upcoming trip, reservation, or suggested activity.
4. Notifications include details such as the destination, departure date and time, and a link to the itinerary.
5. The traveler can access more details about the trip, reservation, or activity directly from the notification.
6. Notifications are clear, concise, and provide necessary information without overwhelming the user.
7. The traveler can manage notifications by marking them as "read" or "dismissed" to clear them from their notification feed.

**Extensions:**

- User modifies notification preferences:
  1. The user can modify their notification settings within the app to customize which types of notifications they wish to receive.

**Post Conditions:**

- The traveler receives notifications and reminders for their upcoming travel plans, reservations, and suggested activities.
- The traveler can access detailed information about each notification.
- The traveler can manage their notification preferences within the app.
- The user's data privacy and security are maintained.

**Special Requirements:** The Routier app should prioritize the privacy and security of user data when sending and receiving notifications.



9)

**Title:** Access Travel Plans and Recommendations Offline

**Goal:** To have the ability to access travel plans and recommendations offline, especially when traveling to areas with limited connectivity, to stay informed and organized during the journey.

**Precondition:**

- The user has created an account and provided necessary travel information.
- The user has access to travel plans, reservations, and recommended activities associated with their account.

**Trigger:** User's travel plans, reservations, or recommended activities need to be accessed offline.

**Actors:** User (Traveler)

**Main Scenario:**

1. The traveler logs into the travel application.
2. The traveler reviews their travel plans, reservations, and recommended activities.
3. The traveler downloads and stores the travel plans and recommendations for offline access.
4. The traveler can view their offline content, including itinerary details and recommendations, without requiring an active internet connection.
5. The offline content includes essential information such as dates, times, addresses, and descriptions for each travel item.

**Extensions:**

- User updates offline content:
  1. Users may have the option to manually update their offline content to ensure it includes the latest information before their trip.

**Post Conditions:**

- The user can access their travel plans and recommendations offline.
- The user can view essential information about their travel items without an internet connection.
- The user's travel plans remain organized and accessible even in areas with limited connectivity.

**Special Requirements:** The travel application should prioritize providing essential information in the offline content and offer the option for users to update it as needed.

**10)**

**Title:** Provide Feedback on Recommendations

**Name:** User (Traveler)

**Goal:** To have the ability to provide feedback on the accuracy and relevance of the recommendations received from Routier, contributing to better-tailored suggestions based on personal preferences.

**Precondition:**

- The user has created an account and received recommendations from Routier.
- The user has interacted with the recommendations and decided to provide feedback.

**Trigger:** User wants to provide feedback on the recommendations.

**Actors:** User (Traveler)

**Main Scenario:**

1. The traveler uses the Routier app and receives recommendations.
2. Within the app's user interface, the traveler finds a prominently available "Provide Feedback" option on the recommendations screen.
3. The traveler selects the "Provide Feedback" option.
4. The app presents a feedback form or interface where the traveler can input their feedback.
5. The feedback form includes a section for the traveler to rate the overall accuracy and relevance of the recommendations on a scale of 1 to 5.
6. The traveler provides ratings and may optionally provide detailed comments and suggestions.
7. The feedback provided by the traveler is stored by Routier's backend system and associated with the specific recommendations that were provided.
8. Routier periodically analyzes the collected feedback to identify patterns and areas for improvement in recommendations.
9. The app encourages users to provide feedback at various intervals to maintain a continuous feedback loop.

**Extensions:**

- The user provides detailed feedback:
  1. Users may have the option to provide detailed comments and suggestions in addition to ratings.

**Post Conditions:**

- The user's feedback is collected and associated with specific recommendations.
- Routier's recommendation system can use the feedback for continuous improvement.
- The user may receive more personalized recommendations based on their feedback.

**Special Requirements:** The Routier app should actively encourage users to provide feedback and ensure that the "Provide Feedback" option is easily accessible within the app's interface.