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ROUTE

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O 1.1 New trends and technological features for the improvement of a technological platform enabling a more efficient management of Social and Environmental sustainability in a cross-border context.

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Introduction

The ROUTE project has developed a cross-border technological platform that integrates new features for managing social and environmental sustainability in mobility. Through the joint cooperation of Italy, Albania and Montenegro, the platform promotes eco-sustainable transport planning and enhances regional connectivity, offering, according to the user category, sustainable mobility solutions that take into account both environmental and social aspects.

The output was achieved through cooperation among all partners: CONFINDUSTRIALE (IT), GAL Mare Molise Costiero (IT), Envio (AL), and Smart Horizont (ME). The partners proposed new sustainable mobility models for each national context and implemented technological upgrades on an existing platform to optimize intermodal transport and sustainability management. Workshops held in Italy, Albania, and Montenegro ensured knowledge transfer and capitalization on TRUST project results.

The platform promotes long-term adoption of sustainable transport practices and supports cross-border mobility governance, aligning with EU environmental and mobility policies.

1. The ROUTE Platform

The main output of the project consists of the development and deployment of a digital platform dedicated to promoting sustainable mobility, both from an environmental and a social perspective. The platform represents an innovative tool aimed at encouraging responsible behaviors in urban and extra-urban mobility, fostering low-impact transport solutions while simultaneously promoting social inclusion and accessibility to mobility services. The platform is accessible via the following link: https://93.62.63.242:30001/route/#/login

Two levels of access are provided:
• USER Profile
• ADMIN Profile

Each profile includes specific functionalities consistent with the user's role and responsibilities.
The USER profile is intended for citizens and end users of sustainable mobility services.
The ADMIN profile is reserved for managing bodies and entities responsible for monitoring and governing the platform.
A video demonstration of the platform is available on YouTube at the following link: https://youtu.be/nvfPHGlqOpo
The following section presents the usage scenarios developed to test the proper functioning of the platform.

1.1 ROUTE Project_Demo query document

1.1.1 USER

ENTER AS USER

Demo credentials:

- **Username**: test
- **Password**: test
- **Access**: click **EXPLORE NOW** to enter the route search interface.

The demo aims to showcase the route search functionality of the ROUTE platform based on:

- **Departure and Arrival** points (Country and City): Italy, Albania and Montenegro
- **User Category**: Family, Family with Infant, Youth, Adult, Senior, Group

- Number of passengers

- **Sustainability Type**: All, Sustainable, Eco-sustainable

  The category **"All"** includes Sustainable and Eco-sustainable

  Meaning Sustainable as:

Service Type	Vehicle Type	Fuel Type
Sharing	Car	Gasoline
	Car	Diesel
	Motorbike / Scooter	Gasoline
	Minivan	Gasoline / Diesel
Rental	Car	Gasoline / Diesel
	Scooter / Motorbike	Gasoline
	Minivan / Minibus	Gasoline / Diesel
Transport	Urban / Extraurban Bus	Diesel
	Trolleybus	Gasoline
	Regional / National Train	Diesel
	Ship	Gasoline
	Airplane	Kerosene

  Meaning Eco-sustainable as:

Service Type	Vehicle Type	Fuel Type
Sharing	Car	Hybrid
	Electric Car	Electric

	Bike / City Bike / Mountain Bike	None
	Electric Bike / Scooter / Moped	Electric
	Minivan	Hybrid / Electric
Rental	Car	Hybrid / Electric
	Bike / City / Mountain Bike	None
	Electric Bike / Mountain Bike	Electric
	Minivan / Minibus	Hybrid / Electric
Transport	High-Speed Train	Electric
	Electric Minibus	Electric

- **Priority**: Cost or Time

Each scenario below illustrates how the system responds to various user inputs.
Note: when the system identifies an optimized route based on the selected criteria, users can click **More Info** to view full details about the itinerary.

1.1.1.1 Demo Scenarios:

1_Scenario 1 – Senior User, Italy: Bari to Otranto

- **Departure**: Italy, Bari
- **Arrival**: Italy, Otranto
- **User Category**: Senior
- **Passengers**: 2
- **Sustainability**: All

- **Priority**: Cost

Click on the message "**Success** Data Received - Click to navigate" to proceed.

Description:
This use case retrieves routes for a senior couple traveling from Bari to Otranto. The system prioritizes environmentally sustainable routes with the lowest cost. Optimized results will show a **"More Info"** button for further details.
Alternatives can be found on:

- Bari to Bari Torre a Mare
- Bari Torre a Mare to Monopoli
- Trepuzzi to Lecce

2_Scenario 2 – Youth User, Italy: Monopoli to Giovinazzo

- **Departure**: Italy, Monopoli
- **Arrival**: Italy, Giovinazzo
- **User Category**: Youth
- **Passengers**: 1
- **Sustainability**: All
- **Priority**: Cost

Click on the message "**Success** Data Received - Click to navigate" to proceed.

Description:
Targeted at a young traveler navigating within Puglia. The system filters by user category and returns the most environmentally sustainable and most affordable routes. Clicking on "**More Info**" allows the user to explore trip specifics, if available.
Alternatives can be found on:

- Monopoli to Bari Torre a Mare

- Bari Torre a Mare to Bari

3_Scenario 3 – Family, Italy: Termoli to Conca Casale

- **Departure**: Italy, Termoli (Molise)
- **Arrival**: Italy, Conca Casale (Molise)
- **User Category**: Family
- **Passengers**: 2
- **Sustainability**: All
- **Priority**: Time

Click on the message "**Success** Data Received - Click to navigate" to proceed.

Description:
A family is looking for the fastest route between two towns in Molise, with a focus on the most environmentally sustainable option and the shortest duration. If a recommended route is available, clicking **"More Info"** reveals time breakdowns and transport options.
Alternatives can be found on:

- Termoli to Bojano
- Bojano to Venafro
- Venafro to Conca Casale

4_Scenario 4 – Family with Infant, Albania: Tirana to Quazim Pali

- **Departure**: Albania, Tirana
- **Arrival**: Albania, Quazim Pali
- **User Category**: Family with Infant
- **Passengers:** Number of adults:2, Number of children:2, Age of child1: 3, Age of child2:7

- **Sustainability**: All
- **Priority**: Time

Click on the message "**Success** Data Received - Click to navigate" to proceed.

Description:
This scenario focuses on a comfortable travel experience suitable for a family with an infant. The system suggests the optimal route by first considering the environmental impact, then taking into account the user's selected priority, and finally identifying the most appropriate mode of transport for families with small children. The "More Info" section provides additional details about the selected route.
Alternatives can be found on:

- Tirana to Dhermi
- Himara to Qeparo
- Qeparo to Borsh
- Borsh to Qazim Pali

5_Scenario 5 – Youth, Montenegro: Podgorica to Kotor

- **Departure**: Montenegro, Podgorica
- **Arrival**: Montenegro, Kotor
- **User Category**: Youth
- **Passengers**: 2
- **Sustainability**: All
- **Priority**: Cost

Click on the message "**Success** Data Received - Click to navigate" to proceed.

Description:
It simulates two young travelers looking for an affordable and sustainable way to reach Kotor. The system filters based on the youth user category and prioritizes the lowest cost, while also considering

environmental impact. The optimized route is displayed, and the “More Info” section provides additional details about the trip.
Alternatives can be found on:

- Podgorica to Cetinje
- Cetinje to Becici
- Budva to Kotor

1.1.2 ADMIN

ENTER AS ADMIN

Demo credentials:

- **Username:** admin
- **Password:** L@4t6$Z!
- **Access:** to access the admin interface, **click on "EXPLORE NOW"** after entering the credentials. This will allow you to manage routes, add new routes, and update service provider details in the system

1.1.2.1 Steps for adding a New Route:

1_Click on “ADD NEW ROUTE"

2_Under General Information, fill in the following details

- **Service Provider**
- **Service Details**
- **Service Type** from the following options:
    1. **Sharing**
    2. **Rental**
    3. **Transport**
- **Used Vehicle** (e.g., vehicle type).
- Provide **Contact Point**

- **Web** information for communication and service details.

3_In the Served Localities section, fill in

- **Country From** (departure country)
- **Country To** (destination country)
- **Distance (km)** and **Time (min)** to define the route duration and distance.

4_Finally, click Add to save the new route.

1.1.2.1 Demo "ADD NEW ROUTE"

1_Click on "ADD NEW ROUTE"

2_Under General Information, fill in the following details:

- **Service Provider: Rent a Car**
- **Service Details: Rent a Car**
- **Service Type**: Rental
- **Used Vehicle**: Eletric Car
- **Contact Point** : 0683931155
- **Web**:https://www.instagram.com/rentacar_kukes/?igshid=MzNlNGNkZWQ4Mg%3D%3D

3_In the Served Localities section, fill in:

- **Country From**: Albania, Kukes
- **Country To**: Albania, Gramsh
- **Distance (km)**:221 km
- **Time (min)**: 180 min

4_Click "Add" for add new route.

5_ Click "Save" to save the new route.