

README:

Travel Insurance Quote and Confirmation Workflow

Overview

This document outlines the functionality implemented in the React frontend for handling **travel insurance quotes and confirmations** in the **Corporate Travel** application. It focuses on two core components:

- `src/components/Insurance.js`
- `src/components/AcceptInsurance.js`

These components interact with multiple backend microservices to provide a streamlined user experience: from generating a travel insurance quote to policy confirmation and notification.

Workflow Description

The process enables users associated with a pending booking to optionally add travel insurance. It is divided into **two main stages**, handled by separate React components.

1. Quote Generation – `Insurance.js`

- Displays a pre-filled form with available user and booking data (e.g: age, destination).
- Collects required user input:
 - Travel start and end dates
 - Desired coverage amount
 - (Optional) Pre-existing medical conditions

- Age (if not already pre-filled)
- On submission, it sends a POST request to the **Quote Service** at <http://bore.pub:xxxxx/quotes>.

On Success:

- Displays the quote including:
 - **Premium**
 - **Quote ID**
 - **Quote Expiry**
- User options:
 - **Accept Quote** → Navigates to [AcceptInsurance.js](#), passing user, booking, and quote details via [location.state](#).
 - **Decline Quote** → Navigates back to the user dashboard without purchasing insurance.
 - **Go Back** → Returns to the previous screen.

2. Policy Confirmation – [AcceptInsurance.js](#)

- Receives data passed from [Insurance.js](#).
- Executes a **sequential API call workflow**:

a. Policy Service

- **Endpoint:** <http://bore.pub:xxxxx/api/policies/external>
- **Purpose:** Creates an official policy.
- **Request:** User ID, dates, coverage, premium, etc.
- **Response:** [policyId](#)

b. Document Service

- **Endpoint:** `http://bore.pub:xxxxx/api/documents/`
- **Purpose:** Generates a downloadable policy document (PDF).
- **Request:** `policyId`
- **Response:** Document URL
- **Note:** Uses a helper function `fixDocumentUrl()` to convert internal URLs (e.g., `host.docker.internal`) to public URLs.

c. Email Service

- **Endpoint:** `http://bore.pub:12026/send-suds-email`
- **Purpose:** Sends policy confirmation via email.
- **Request:** User email + policy details

d. SMS Service

- **Endpoint:** `http://bore.pub:34664/send-suds-sms`
- **Purpose:** Sends SMS confirmation.
- **Request:** User phone number + policy details

User Feedback

- Real-time status updates displayed to the user:
 - "Creating policy..."
 - "Generating document..."
- Errors are handled gracefully:
 - If **policy creation** fails → the process halts with an error message.
 - If **document/email/SMS** fails → user is warned, but process completes.

- Final confirmation screen:
 - Displays status messages
 - Provides document link (if available)
 - Redirects automatically to the dashboard after a short delay.

Github Repository Link:

<https://github.com/Suds666/Corporate-Travel-Cloud-Computing-Project.git>

Teams being integrated with:

| Name | Section | SRN |
|------------------------------|---------|---------------|
| Team 12 (Our team) | | |
| Sai Arya RB | AIML-C | PES1UG22AM142 |
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