# **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
  - o (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:
  - o 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.
  - o **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.
  - $\circ$  If **document/email/SMS** fails  $\Rightarrow$  user is warned, but process completes.

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

### Github Repository Link:

https://github.com/Suds666/Corporate-Travel-Cloud-Computing-Projec
t.git