## WorldExplorer App Case Study

			ROU
1	Name of the Project	WorldExplorer App	AN
		Build a system to search for country and list matching countries, show details of a selected country and bookmark a country. The application should have header section, search section and result display section.	VENTU
2	Objective/ Vision	The application needs to fetch country details by using the following API link. https://restcountries.eu/	I
		Sample reference APIs: <a href="https://restcountries.com">https://restcountries.com</a> / <a href="https://restcountries.com/v3.1/name/india">https://restcountries.com/v3.1/name/india</a>	
3	Users of the System	All Internet users	
4	Functional Requirements	<ol> <li>1) Home Page should consist of Register page link through which a user can register himself. Upon registration, the user able to login into his account.</li> <li>2) User home page should also have options for to edit his profile and changing his password.</li> <li>3) World Explore - View to select the country to display the States</li> <li>4) Search for country and show list of matching countries</li> <li>5) View details of selected country and its continent</li> <li>6) Bookmark a country - should be able to store all the bookmarked countries for a user</li> <li>7) Logged in user can bookmark countries</li> <li>8) Recommendation for other countries from the same continent.</li> </ol>	
5	Non-functional requirements	<ul> <li>a) App should be accessible from any location with access to the Internet.</li> <li>b) App should be responsive to display consistently across multiple device screens.</li> <li>c) App should have an intuitive UI that can be operated by novice-expert Internet users</li> </ul>	
6	Tools and Technologies to be used	<ol> <li>VCS : Gitlab</li> <li>Middleware : Spring Boot</li> <li>Frond end : Angular/React</li> <li>Data Store : MongoDB / MySQL</li> <li>Testing : JUnit, Mocha, Chai, Jest, Protractor</li> <li>Container : Docker</li> <li>Bug Fix : Sonarlint</li> <li>Cl : Gitlab</li> </ol>	

## **User Stories**

1	As a user I should be able to register with the application so that I can login and use the functionalities of the application.		
2	As a user, I should be able to login with my user name and password in order to access the functionalities of the application.		
3	As a user, I should be able to login with my Gmail account in order to access the functionalities of the application.(Optional Requirement)		
4	As a user I should be able to search resources to view their details		
5	As a user, I should be able to save resources to a wishlist/favourite so that I can access them later		
6	As a user, I should be able to access items saved to my wishlist/favourite		

## Notes:

- The application should be based on microservices architecture
- API Gateway pattern should be implemented using Spring Cloud Gateway
- Services should register themselves with Eureka Service Discovery server.
- All layers of microservices should be covered with automated unit and integration tests
- All microservice endpoints should have API documentation

## **High Level Architecture Diagram**



