
System Requirements Specification Index

For

Tourist Guide Application (InMemory)

Version 4.0

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TOURIST GUIDE APPLICATION

System Requirements Specification

1. PROJECT ABSTRACT

1.1 PROBLEM STATEMENT:

The purpose of this application is to allow the visitors/Traveller to view various destinations to travel, search destination details by name and Id, and hire a tour guide to show them all explorations or many more functions.

1.2 Following is the requirement specifications:

	Tourist Guide Application
Tourist Controller	
1	View All Destinations by name and Id.
2	Find a destination by name and attraction.
3	Hire a tour guide.
4	Find tour guide details.
5	Know about all India destinations.

2. TEMPLATE CODE STRUCTURE

2.1 PACKAGE:TOURISTGUIDE

Names	Resource	Remarks	Status
Package Structure/Project			
wwwroot	CSS, JS, Lib	Inside all these directory contains all styling logic code and javascripts file.	Already Implemented
controller	TouristController	School controller handle all action method for respective user interface view(cshtml file)	Partially Implemented
Models	Error view model cs file	Contain all basic error definition	Already Implemented
Views	Tourist, Home, Shared	All View .cshtml file for user interface.	Already Implemented

2.2 PACKAGE:TOURISTGUIDE.BUSINESSLAYER

Names	Resource	Remarks	Status
Package Structure			
Interfaces	Interface directory contain all interface for Services class	Inside this directory contains all business logic code and CRUD Operation Logic method.	Already Implemented
Services, Repository	ITourguideServices, TourguideServices, ITourguideRepository, TourguideRepository cs file for Method and business logic	Using this all cs file performed all CRUD operation.	Partially Implemented
ViewModels	Cs file for represent all view entities	All view entities setting class	Already Implemented

2.3 PACKAGE:TOURISTGUIDE.DATALAYER

Names	Resource	Remarks	Status
Package Structure			
DataGenerator	This cs class contain all dummy data for inMemory Operation	Create and initialize a basic data for application alive for demo.	Already Implemented
TouristguideDbContext	Contain all business logic for data set and Dbset setting	Using this cs file performed all Data related settings operations.	Already Implemented

2.4 PACKAGE:TOURISTGUIDE.ENTITIES

Names	Resource	Remarks	Status
Package Structure			
Entities Class	About India, ContactUs, Destination, Place, TourGuide cs file	Contain all entities property for application	Already Implemented

2.5 PACKAGE: TOURISTGUIDE.TEST

Resources

Note: - Under the TouristGuide.Test contains All Test cases for code evaluation, please don't try to alter and edit it.

3. REST ENDPOINTS

Rest End-points to be exposed in the controller along with method details for the same to be created

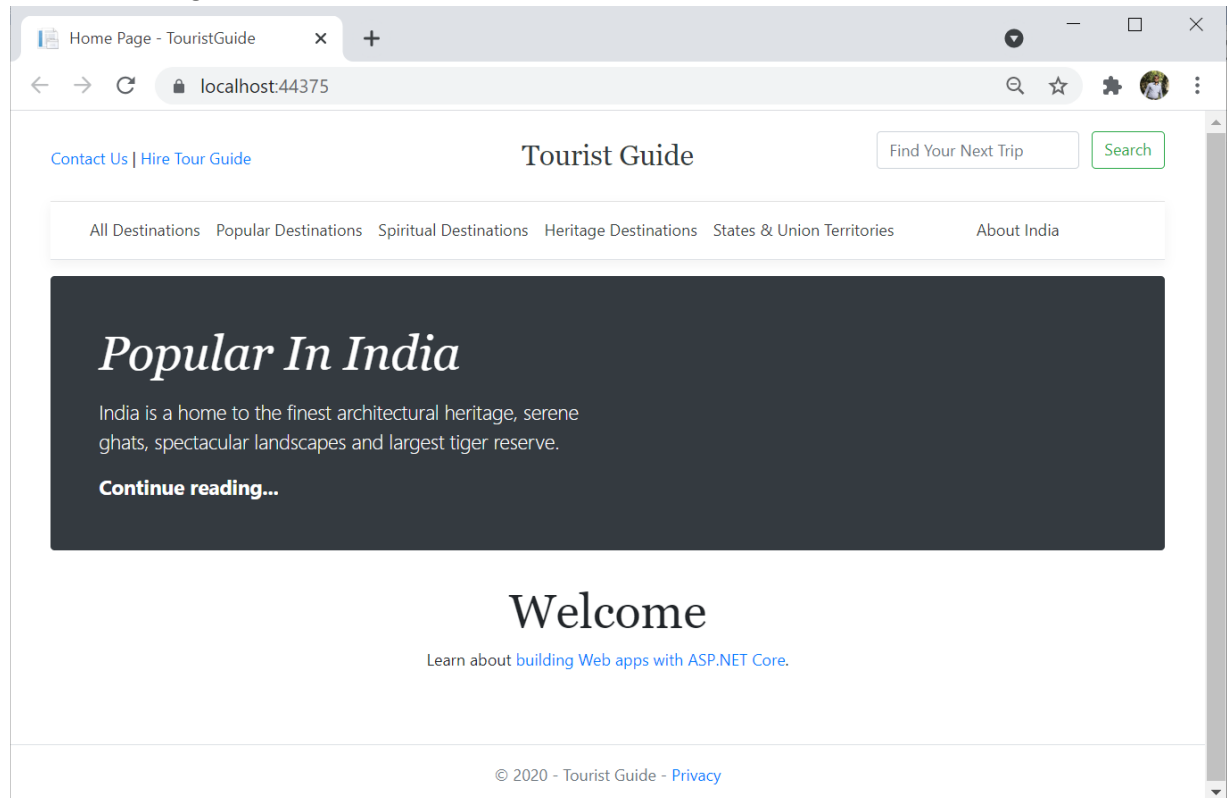
3.1 SchoolController

URL Exposed		Purpose						
/ <table><tr><td>Http Method</td><td>GET</td></tr><tr><td>Parameter 1</td><td>-</td></tr><tr><td>Return</td><td>all destinations</td></tr></table>		Http Method	GET	Parameter 1	-	Return	all destinations	Show or all destinations
Http Method	GET							
Parameter 1	-							
Return	all destinations							
/Tourist/Details?placeId=1 <table><tr><td>Http Method</td><td>GET</td></tr><tr><td>Parameter 1</td><td>placeId</td></tr><tr><td>Return</td><td><Place></td></tr></table>		Http Method	GET	Parameter 1	placeId	Return	<Place>	Get place by PlaceId and its details
Http Method	GET							
Parameter 1	placeId							
Return	<Place>							
/Tourist/HireTourGuide <table><tr><td>Http Method</td><td>POST</td></tr><tr><td>Parameter 1</td><td>TourGuide tourGuide</td></tr><tr><td>Return</td><td>HTTP Status Code</td></tr></table>		Http Method	POST	Parameter 1	TourGuide tourGuide	Return	HTTP Status Code	Hire a tour guide
Http Method	POST							
Parameter 1	TourGuide tourGuide							
Return	HTTP Status Code							
/Tourist/AboutIndia <table><tr><td>Http Method</td><td>GET</td></tr><tr><td>Parameter 1</td><td>-</td></tr><tr><td>Return</td><td><IEnumerable<AboutIndia>></td></tr></table>		Http Method	GET	Parameter 1	-	Return	<IEnumerable<AboutIndia>>	Know the all india visiting destination
Http Method	GET							
Parameter 1	-							
Return	<IEnumerable<AboutIndia>>							
/Tourist/TourGuideInfo?tourId=1 <table><tr><td>Http Method</td><td>GET</td></tr><tr><td>Parameter 1</td><td>tourId</td></tr><tr><td>Return</td><td><TourGuide></td></tr></table>		Http Method	GET	Parameter 1	tourId	Return	<TourGuide>	Book Borrow Information
Http Method	GET							
Parameter 1	tourId							
Return	<TourGuide>							

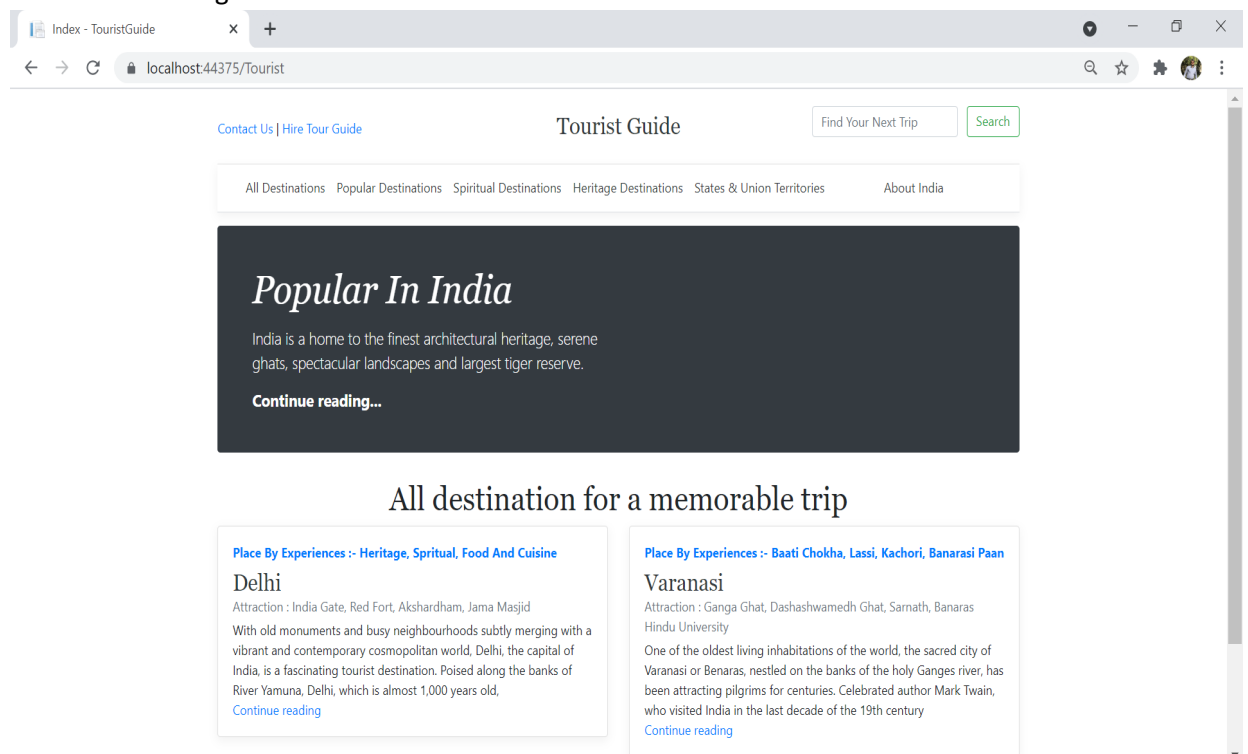
4. WIREFRAME:

1. Following wireframe need to consider to develop the UI.

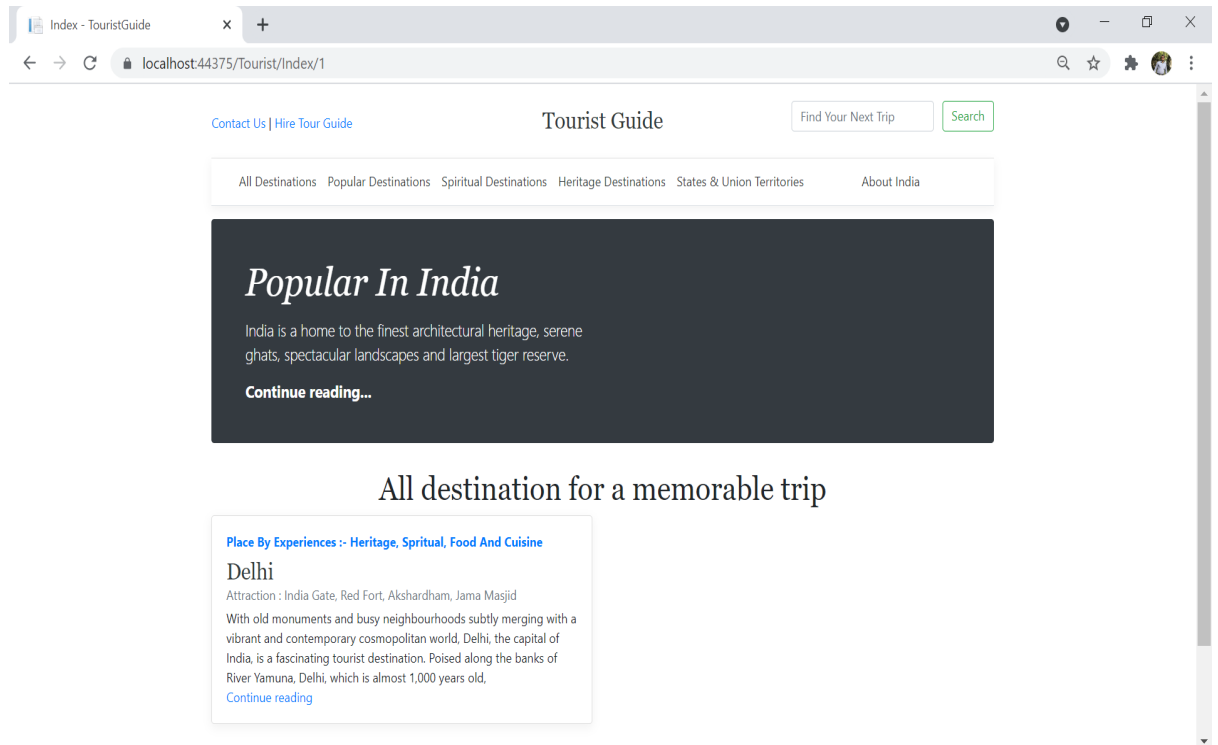
Home/Index Page



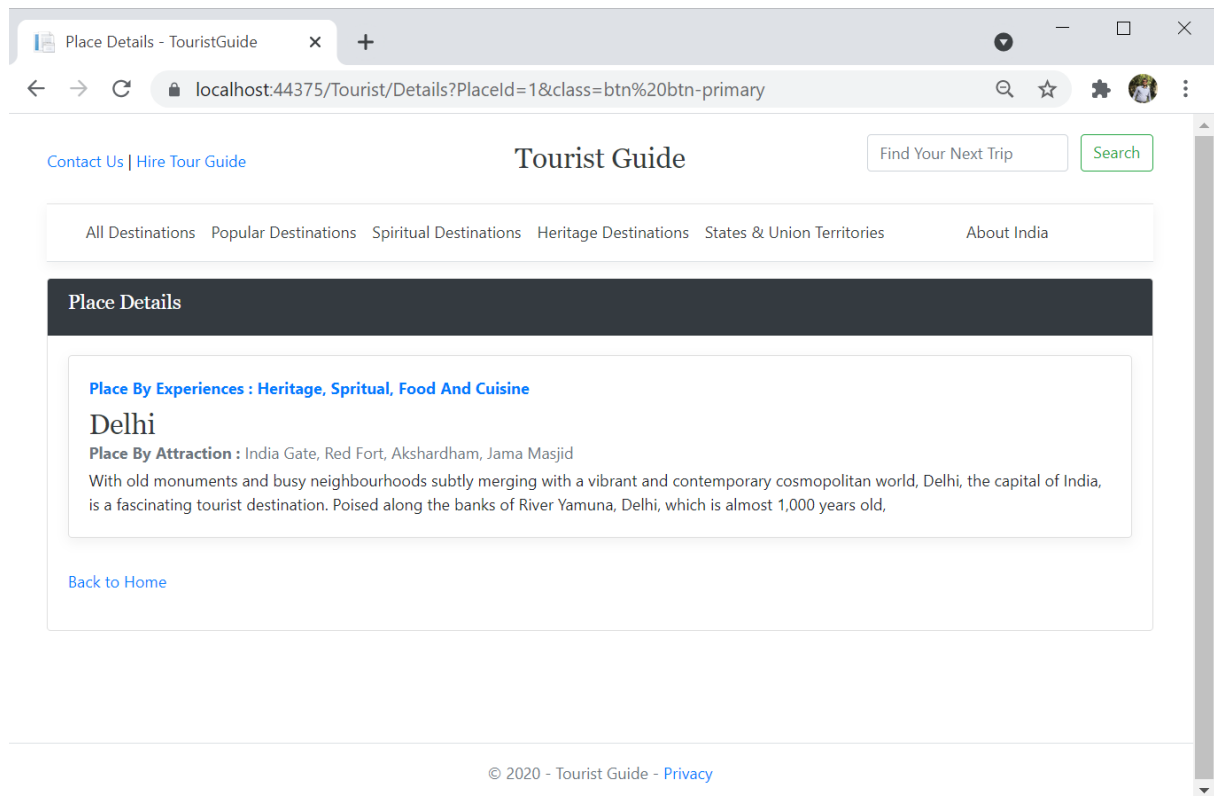
All Destination Page



Popular Destination Page (Based on menu bar)



Place Details Page



HireTourGuide Page

TourGuide - TouristGuide

localhost:44375/Tourist/HireTourGuide

Contact Us | Hire Tour Guide

Tourist Guide

Find Your Next Trip

Search

All Destinations

Popular Destinations

Spiritual Destinations

Heritage Destinations

States & Union Territories

About India

Hire a tour guide

Name

Phone

Email

Experience

Remark

Address

Hire

Back To Home

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TourGuide Info Page

OrderInfo - TouristGuide

localhost:44375/Tourist/TourGuideInfo?tourId=1

Contact Us | Hire Tour Guide

Tourist Guide

Find Your Next Trip

Search

All Destinations

Popular Destinations

Spiritual Destinations

Heritage Destinations

States & Union Territories

About India

Tour Info

Thanku for Booking with us your Operator will be contacted soon....

Home

TourId	Name	Phone	Action
1	Uma	9631438113	Soon we Contact

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Destination Details page based on India(About India)

About India - TouristGuide

localhost:44375/Tourist/AboutIndia

Contact Us | Hire Tour Guide

Tourist Guide

Find Your Next Trip

Search

All Destinations

Popular Destinations

Spiritual Destinations

Heritage Destinations

States & Union Territories

About India

About India, How to Visit

About India

India is one of the oldest civilizations in the world with a kaleidoscopic variety and rich cultural heritage. It has achieved all-round socio-economic progress during the last 65 years of its Independence. India has become self-sufficient in agricultural production and is now one of the top industrialized countries in the world and one of the few nations to have gone into outer space to conquer nature for the benefit of the people. It covers an area of 32, 87,263 sq. km, extending from the snow-covered Himalayan heights to the tropical rain forests of the south. As the 7th largest country in the world, India stands apart from the rest of Asia, marked off as it is by mountains and the sea, which give the country a distinct geographical entity. Bounded by the Great Himalayas in the north, it stretches southwards and at the Tropic of Cancer, tapers off into the Indian Ocean between the Bay of Bengal on the east and the Arabian Sea on the west. As you travel, India offers a range of vast tourism choices, diverse in land and nature, people, tribes, cuisine, faiths, dance forms, music, arts, crafts, adventure, sport, spirituality, history; even these vary as you journey from one state to another. As a country, India has achieved all-round socio-economic progress in the last 70 years of independence. The change is clearly visible in the Tier I and Tier II cities. However, the fascinating aspect lies in the stark difference as you travel through the new and old parts of its cities. From world-class airports and hotels, luxurious shopping malls, restaurants, pubs and cafes to overcrowded streets and alleyways, in the same cities, filled with thousands of little shops offering every possible modern and ethnic product and native street food is a fascinating experience.

Visa

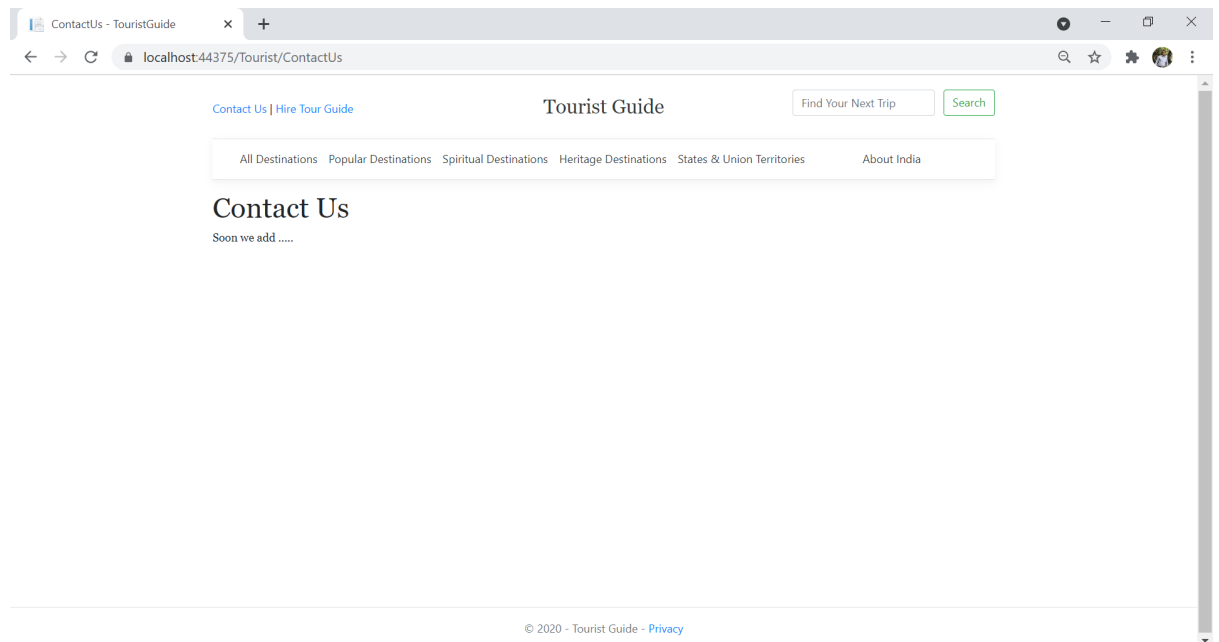
All foreign nationals entering India are required to possess a valid international travel document in the form of a national passport with a valid visa obtained from an Indian Mission or Post abroad. Tourist Visa can only be granted to a foreigner who does not have a residence or occupation in India and whose sole objective of visiting India is recreation, sight seeing, casual visit to meet friends and relatives, etc.

Currency

India Rupees

Language

ContactUs Page



5. BUSINESS VALIDATIONS

5.1 Entities:

- All the value for Place details: must not be null and min of 4 chars
- All the About India value: must not be null and min of 3 chars
- All the Destination: must not be null and min of 3 chars.
- All the TourGuide: must not be null.

5.2 Common Constraints:

- For all receiving Url parameter, validation check must be done and must throw custom exception if data is invalid
- Must not go and touch the test resources, as they will be used for Auto-Evaluation.
- **Database used is Embedded InMemory with pre-written entities data and value.**

6. CONSIDERATIONS

- Your code will also be evaluated for code quality, naming conventions, readability etc.
- Make sure you do not modify existing class and method names and their signatures, else it would severely affect the final result.
- Make sure you do not add any new class or methods, else it would severely affect the final result.
- Make sure you do not modify any test cases, else it would severely affect final result

7. EXECUTION STEPS TO FOLLOW

1. All actions like build, compile, running application, running test cases will be through Command Terminal.
2. To open the command terminal the test takers need to go to the Application menu (Three horizontal lines at left top) Terminal → New Terminal.
3. On command prompt, cd into your project folder (**cd <Your-Project-folder>**).
4. To build your project use command:
(TouristGuide / **dotnet build**)
5. To launch your application, Run the following command to run the application:
(TouristGuide / **dotnet run**)
6. This editor Auto Saves the code.
7. To test any Restful application, the last option on the left panel of IDE, you can find ThunderClient, which is the lightweight equivalent of POSTMAN.
8. To test any UI based application the second last option on the left panel of IDE, you can find Browser Preview, where you can launch the application.
9. To run the test cases in CMD, Run the following command to test the application:
(TouristGuide / **dotnet test --logger "console;verbosity=detailed"**)
(You can run this command multiple times to identify the test case status, and refactor code to make maximum test cases passed before final submission)
10. If you want to exit(logout) and continue the coding later anytime (using Save & Exit option on Assessment Landing Page) then you need to use CTRL+Shift+B - command compulsorily on code IDE. This will push or save the updated contents in the internal git/repository. Else the code will not be available in the next login.

11. These are time bound assessments the timer would stop if you logout and while logging in back using the same credentials the timer would resume from the same time it was stopped from the previous logout.

12. You need to use CTRL+Shift+B - command compulsorily on code IDE, before final submission as well. This will push or save the updated contents in the internal git/repository, and will be used to evaluate the code quality.
