Project Doc For Apex Integration Services

Apex REST Callouts

AnimalLocator:

```
public class AnimalLocator{
    public static String getAnimalNameById(Integer x){
        Http http = new Http();
        HttpRequest req = new HttpRequest();
        req.setEndpoint('https://th-apex-http-callout.herokuapp.com/animals/'
 + x);
        req.setMethod('GET');
        Map<String, Object> animal= new Map<String, Object>();
        HttpResponse res = http.send(req);
           if (res.getStatusCode() == 200) {
        Map<String, Object> results = (Map<String,
Object>)JSON.deserializeUntyped(res.getBody());
        animal = (Map<String, Object>) results.get('animal');
        }
return (String)animal.get('name');
    }
}
```

AnimalLocatorTest:

```
@isTest
private class AnimalLocatorTest{
    @isTest static void AnimalLocatorMock1() {
        Test.setMock(HttpCalloutMock.class, new AnimalLocatorMock());
        string result = AnimalLocator.getAnimalNameById(3);
        String expectedResult = 'chicken';
        System.assertEquals(result,expectedResult );
    }
}
```

AnimalLocatorMock:

```
@isTest
global class AnimalLocatorMock implements HttpCalloutMock {
    global HTTPResponse respond(HTTPRequest request) {
        HttpResponse response = new HttpResponse();
        response.setHeader('Content-Type', 'application/json');
        response.setBody('{"animals": ["majestic badger", "fluffy bunny", "scary bear",
"chicken", "mighty moose"]}');
        response.setStatusCode(200);
        return response;
    }
}
```

Apex SOAP Callouts

ParkLocator:

```
public class ParkLocator {
    public static string[] country(string theCountry) {
        ParkService.ParksImplPort  parkSvc = new  ParkService.ParksImplPort(); // remove
space
        return parkSvc.byCountry(theCountry);
    }
}
```

ParkLocatorTest:

```
@isTest
private class ParkLocatorTest {
    @isTest static void testCallout() {
        Test.setMock(WebServiceMock.class, new ParkServiceMock ());
        String country = 'United States';
        List<String> result = ParkLocator.country(country);
        List<String> parks = new List<String>{'Yellowstone', 'Mackinac National Park',
'Yosemite'};
         System.assertEquals(parks, result);
```

```
    }
}
```

ParkServiceMock:

```
@isTest
global class ParkServiceMock implements WebServiceMock {
   global void doInvoke(
         Object stub,
         Object request,
         Map<String, Object> response,
         String endpoint,
         String soapAction,
         String requestName,
         String responseNS,
         String responseName,
         String responseType) {
      ParkService.byCountryResponse response_x = new
ParkService.byCountryResponse();
      response_x.return_x = new List<String>{'Yellowstone', 'Mackinac National Park',
'Yosemite'};
      response.put('response_x', response_x);
   }
}
```

Apex Web Services

AccountManager:

```
@RestResource(urlMapping='/Accounts/*/contacts')
global class AccountManager {
   @HttpGet
   global static Account getAccount() {
      RestRequest req = RestContext.request;
      String accId = req.requestURI.substringBetween('Accounts/', '/contacts');
      Account acc = [SELECT Id, Name, (SELECT Id, Name FROM Contacts)
```

```
            FROM Account WHERE Id = :accId];
        return acc;
    }
}
```

AccountManagerTest:

```
@isTest
private class AccountManagerTest {

    private static testMethod void getAccountTest1() {
        Id recordId = createTestRecord();
        RestRequest request = new RestRequest();
        request.requestUri = 'https://na1.salesforce.com/services/apexrest/Accounts/'+
 recordId +'/contacts' ;
        request.httpMethod = 'GET';
        RestContext.request = request;
        Account thisAccount = AccountManager.getAccount();
        System.assert(thisAccount != null);
        System.assertEquals('Test record', thisAccount.Name);

    }

        static Id createTestRecord() {
        Account TestAcc = new Account(
          Name='Test record');
        insert TestAcc;
        Contact TestCon= new Contact(
        LastName='Test',
        AccountId = TestAcc.id);
        return TestAcc.Id;
    }
}
```

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Module

Apex Integration Services

Integrate with external apps using Apex REST and SOAP services.

+2,000 POINTS

Completed 7/2/22

Apex Integration Overview
~10 mins

Apex REST Callouts
~40 mins

Apex SOAP Callouts
~20 mins