

Name: Renuka Kategchar

Project Title: College Management Application

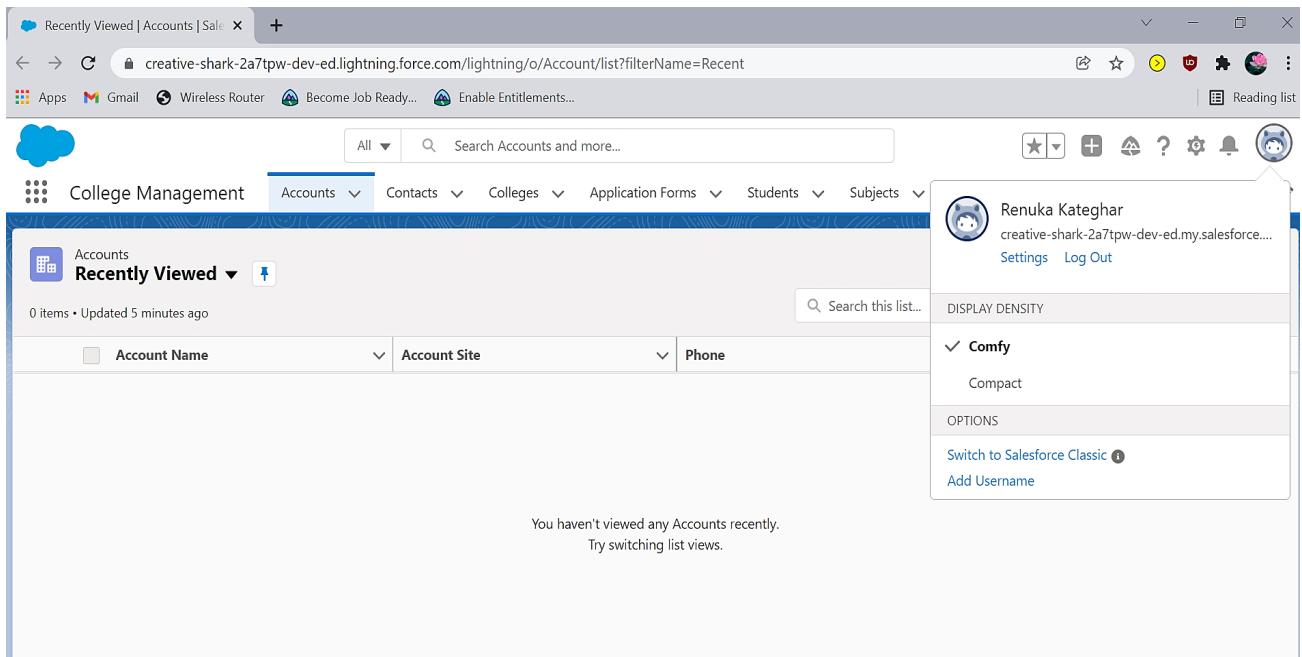
Day 1 :

Topic : Create Your Salesforce Developer Org

Milestone / Activities : Created Salesforce Account

Detailed Description : I have already created Salesforce Account

Upload the Screenshot the Milestone / Activities :



Day 2 :

Topic : Custom Object Creation

Milestone / Activities : Created Custom Objects for

1. College.
2. Application Form.
3. Students.
4. Subjects.

Detailed Description :

1. Fields created for college object are

- Record Info
- College Fees
- Hostel Fees
- College Name
- Email
- Capacity Of Students

2. Fields created for Application form object are

- Application Form ID
- Address
- College
- College Fees
- Hostel Fees
- date of Birth
- Email
- Guardian Name
- Looking For Hostel Stay
- Ready To Join
- Student Name
- Phone

3. Fields created for Students object are

- Student Name
- Address
- Application Form
- College Name

- Date Of Birth
- Guardian Name
- Phone

4. Fields created for Subject object are

- Subject ID
- Paper 1
- Paper2
- Student

Upload the Screenshot the Milestone / Activities :

The screenshot shows the Salesforce Object Manager interface. At the top, there's a navigation bar with tabs for 'Recently Viewed', 'Accounts', 'Sales', 'Object Manager', and 'Salesforce'. Below the navigation bar is a toolbar with icons for 'Apps', 'Gmail', 'Wireless Router', 'Become Job Ready...', and 'Enable Entitlements...'. The main area has a blue header with the 'Object Manager' logo and the word 'Object Manager'. A search bar contains the text 'college'. To the right of the search bar are buttons for 'Schema Builder' and 'Create'. Below the header is a table with the following data:

LABEL	API NAME	TYPE	DESCRIPTION	LAST MODIFIED	DEPLOYED
College	College_c	Custom Object		1/8/2022	✓

The screenshot shows the Salesforce Object Manager interface. The search bar at the top contains the text "appli". A table below lists one item:

LABEL	API NAME	TYPE	DESCRIPTION	LAST MODIFIED	DEPLOYED
Application Form	Application_Form_c	Custom Object		1/10/2022	✓

The screenshot shows the Salesforce Object Manager interface. The search bar at the top contains the text "stude". A table below lists one item:

LABEL	API NAME	TYPE	DESCRIPTION	LAST MODIFIED	DEPLOYED
Students	Students_c	Custom Object		1/10/2022	✓

Recently Viewed | Accounts | Sales | Object Manager | Salesforce

creative-shark-2a7tpw-dev-ed.lightning.force.com/lightning/setup/ObjectManager/home

Apps Gmail Wireless Router Become Job Ready... Enable Entitlements... Reading list

Cloud icon Search Setup

Setup Home Object Manager

Object Manager

1 Items, Sorted by Label

LABEL	API NAME	TYPE	DESCRIPTION	LAST MODIFIED	DEPLOYED
Subjects	Subjects__c	Custom Object		1/10/2022	✓

Recently Viewed | Accounts | Sales | College | Salesforce

creative-shark-2a7tpw-dev-ed.lightning.force.com/lightning/setup/ObjectManager/0115j000000IPiP/FieldsAndRelationships/view

Apps Gmail Wireless Router Become Job Ready... Enable Entitlements... Reading list

Cloud icon Search Setup

Setup Home Object Manager

View profile

College

SETUP > OBJECT MANAGER

Fields & Relationships				
10 Items, Sorted by Field Label				
FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Capacity Of Students	Capacity__Of_Students__c	Picklist	College Name	
College Fees	College_Fees__c	Currency(7, 2)		
College Name	College_Name__c	Picklist		
College Name	Name	Text(80)		
Created By	CreatedById	Lookup(User)		
Email	Email__c	Picklist	College Name	
Hostel Fees	Hostel_Fees__c	Currency(6, 2)		
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User;Group)		
Record Info	Record_Info__c	Text(25)		

Recently Viewed | Accounts | Sales | Application Form | Salesforce

creative-shark-2a7pw-dev-ed.lightning.force.com/lightning/setup/ObjectManager/0115j000000IRoi/FieldsAndRelationships/view

Apps Gmail Wireless Router Become Job Ready... Enable Entitlements...

Setup Home Object Manager

Search Setup

SETUP > OBJECT MANAGER Application Form

Fields & Relationships

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Address	Address__c	Text(255)		
Application Form ID	Application_Form__D_C	Auto Number		
Application Form Name	Name	Text(80)		
College	College__c	Master-Detail(College)		
College Fees	College_Fees__c	Formula (Currency)		
Created By	CreatedBy	Lookup(User)		
Date of Birth	Date_of_Birth__c	Date		
Email	Email__c	Email (Unique)		
Guardian Name	Guardian_Name__c	Text(30)		
Home Fees	Home_Fees__c	Formula (Currency)		
Last Modified By	LastModifiedBy	Lookup(User)		
Looking For Hostel Stay	Looking_for_Hostel_Stay__c	Checkbox		
Phone	Phone__c	Phone		
Ready To Join	Ready_to_Join__c	Checkbox		
Student Name	Student_Name__c	Text(30)		

Recently Viewed | Accounts | Sales | Students | Salesforce

creative-shark-2a7pw-dev-ed.lightning.force.com/lightning/setup/ObjectManager/0115j000000IRui/FieldsAndRelationships/view

Apps Gmail Wireless Router Become Job Ready... Enable Entitlements...

Setup Home Object Manager

Search Setup

SETUP > OBJECT MANAGER Students

Fields & Relationships

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Address	Address__c	Text(255)		
Application Form	Application_Form__c	Lookup(Application Form)		
College Name	College_Name__c	Formula (Text)		
Created By	CreatedBy	Lookup(User)		
Date Of Birth	Date_of_Birth__c	Date		
Guardian Name	Guardian_Name__c	Text(30)		
Last Modified By	LastModifiedBy	Lookup(User)		
Owner	OwnerId	Lookup(User/Group)		
Phone	Phone__c	Phone		
Student Name	Student_Name__c	Text(30)		
Students Name	Name	Text(80)		

Recently Viewed | Accounts | Sales | Subjects | Salesforce

creative-shark-2a7tpw-dev-ed.lightning.force.com/lightning/setup/ObjectManager/0115j000000IRvG/FieldsAndRelationships/view

Apps Gmail Wireless Router Become Job Ready... Enable Entitlements...

Setup Home Object Manager

Search Setup

SETUP > OBJECT MANAGER Subjects

Fields & Relationships
8 items, Sorted by Field Label

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedBy	Lookup(User)		
Last Modified By	LastModifiedBy	Lookup(User)		
Owner	OwnerId	Lookup(User/Group)		✓
Paper 1	Paper_1__c	Picklist		▼
Paper2	Paper2__c	Picklist		▼
Students	Students__c	Lookup(Students)		✓
Subject ID	Subject_ID__c	Auto Number		▼
Subjects Name	Name	Text(80)		✓

Day 3 :

Topic : Adding business Logic to Application

Milestone / Activities : Created global picklist value sets, field dependency, validation rule, process automation and student record using flow.

Detailed Description : Global picklist value sets are

- College
- Paper 1
- paper2

Upload the Screenshot the Milestone / Activities :

The screenshot shows the Salesforce Setup interface for creating a custom field named 'College Name'. The field is defined as a picklist type with a default value of 'College Name'. It has a dependency rule where it must be assigned to the value defined in the value set. The field is also part of a validation rule. A table below lists the active and inactive values for the 'College Name' field, including their descriptions and modification history.

Values	Alt Name	Default	Chart Colors	Modified By
MTT-BLR	MTT-BLR	<input checked="" type="checkbox"/>	Assigned dynamically	Renjith Kappanaparambil 1/10/2022, 4:40 AM
MTT-MAA	MTT-MAA	<input type="checkbox"/>	Assigned dynamically	Renjith Kappanaparambil 1/10/2022, 4:40 AM
MTT-HYD	MTT-HYD	<input type="checkbox"/>	Assigned dynamically	Renjith Kappanaparambil 1/10/2022, 4:40 AM
MTT-DEL	MTT-DEL	<input type="checkbox"/>	Assigned dynamically	Renjith Kappanaparambil 1/10/2022, 4:40 AM
MTT-MUM	MTT-MUM	<input type="checkbox"/>	Assigned dynamically	Renjith Kappanaparambil 1/10/2022, 4:40 AM
MTT-COJ	MTT-COJ	<input type="checkbox"/>	Assigned dynamically	Renjith Kappanaparambil 1/10/2022, 4:40 AM
APEX	APEX	<input type="checkbox"/>	Assigned dynamically	Renjith Kappanaparambil 1/10/2022, 2:25 AM
JAVA	JAVA	<input type="checkbox"/>	Assigned dynamically	Renjith Kappanaparambil 1/10/2022, 2:25 AM
C	C	<input type="checkbox"/>	Assigned dynamically	Renjith Kappanaparambil 1/10/2022, 2:25 AM
C++	C++	<input type="checkbox"/>	Assigned dynamically	Renjith Kappanaparambil 1/10/2022, 2:25 AM
MATHEMATICS	MATHEMATICS	<input type="checkbox"/>	Assigned dynamically	Renjith Kappanaparambil 1/10/2022, 2:25 AM
ENGLISH	ENGLISH	<input type="checkbox"/>	Assigned dynamically	Renjith Kappanaparambil 1/10/2022, 2:25 AM
STATISTICS	STATISTICS	<input type="checkbox"/>	Assigned dynamically	Renjith Kappanaparambil 1/10/2022, 2:25 AM

Setup | Home | Object Manager | Search Setup | Help for this Page

Subjects

Custom Field Definition Detail

Paper 1

Custom Field Definition Detail

Field Information		Validation Rules																																																																							
Field Label	Paper 1	Set Field Level Security	View Field Accessibility																																																																						
Field Name	Paper_1	Where is this used?																																																																							
API Name	Paper_1_S																																																																								
Description		Object Name	Subjects																																																																						
Help Text		Date Type	Picture																																																																						
Date Owner		Global Value Set	College Name																																																																						
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Setup | Home | Object Manager | Search Setup | Help for this Page

Subjects

Custom Field Definition Detail

Paper2

Custom Field Definition Detail

Field Information		Validation Rules																																																																							
Field Label	Paper2	Set Field Level Security	View Field Accessibility																																																																						
Field Name	Paper_2	Where is this used?																																																																							
API Name	Paper_2_S																																																																								
Description		Object Name	Subjects																																																																						
Help Text		Date Type	Picklist																																																																						
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Setup | Home | Object Manager | College

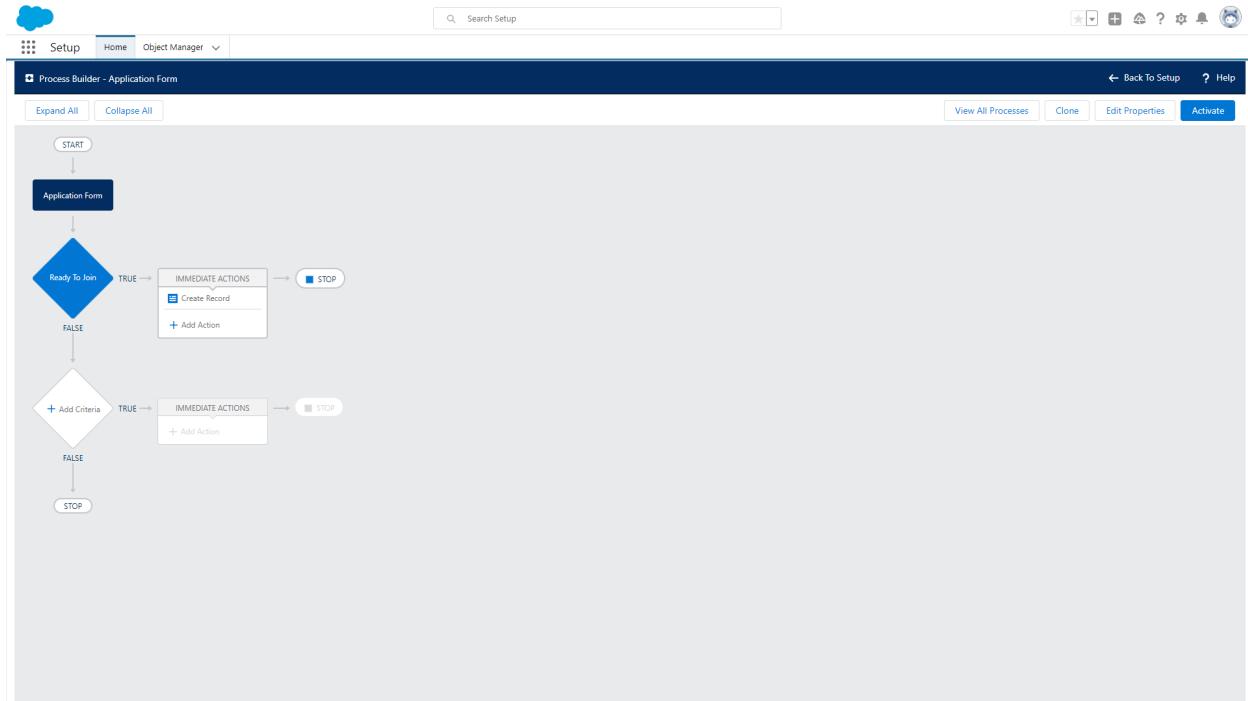
Fields & Relationships

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Capacity Of Students	Capacity_of_Students__c	Picklist	College Name	
College Fees	College_Fees__c	Currency(7,2)		
College Name	College_Name__c	Picklist		
Created By	CreatedById	Lookup(User)		✓
Email	Email__c	Picklist	College Name	
Hotel Fees	Hotel_Fees__c	Currency(7,2)		
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User/Group)		✓
Record Info	Record_Info__c	Text(25)		

Setup | Home | Object Manager | College

Validation Rules

RULE NAME	ERROR LOCATION	ERROR MESSAGE	ACTIVE	MODIFIED BY
Vid	Top of Page	error	✓	Renuka Kotegehar 1/10/2022 2:37 AM



The screenshot shows the Salesforce Flow Builder interface for an "Application Form" object. A modal window titled "Edit Assignment" is open, showing the configuration for the "Assign student record data (Assign_student_record_data)" action. The modal has a heading "Assign student record data (Assign_student_record_data)". It contains a table titled "Set Variable Values" with six rows, each defining a variable and its value:

Variable	Operator	Value
A\$_Record > Address	Equals	A\$_Record > Address
A\$_Record > Application Form ID	Equals	A\$_Record > Application Form ID
A\$_Record > date of Birth	Equals	A\$_Record > date of Birth
A\$_Record > College	Equals	A\$_Record > College
A\$_Record > Guardian Name	Equals	A\$_Record > Guardian Name
A\$_Record > Phone	Equals	A\$_Record > Phone
A\$_Record > Student Name	Equals	A\$_Record > Student Name

At the bottom of the modal are "Cancel" and "Done" buttons.

Day 4 :

Topic : Batch Apex

Milestone / Activities : Created a Batchapex For Application Form and a Schedular Class.

Detailed Description : From the developer console I have created two apex classes named ApplicationBatchTest and applicationschedule.

Upload the Screenshot the Milestone / Activities :

The screenshot shows the Salesforce Setup interface with the search bar set to 'apex'. The left sidebar is expanded, showing sections for Email, Custom Code (with 'Apex Classes' selected), Environments, and Jobs. The main content area is titled 'Apex Classes' and displays a message about code usage. Below this, there are buttons for 'Estimate your organization's code coverage' and 'Compile all classes'. A table lists four Apex classes: ApplicationBatchTest, applicationschedule, tt_UtilityController, and tt_UtilityControllerTest. The table includes columns for Action, Name, Namespace Prefix, API Version, Status, Size Without Comments, Last Modified By, and Has Trace Flags.

Action	Name	Namespace Prefix	API Version	Status	Size Without Comments	Last Modified By	Has Trace Flags
Edit Del Security	ApplicationBatchTest		53.0	Active	1,228	Renuka Kategbar	1/14/2022, 6:35 AM
Edit Del Security	applicationschedule		53.0	Active	218	Renuka Kategbar	1/14/2022, 6:37 AM
Edit Security	tt_UtilityController	trihotips	47.0	Active	893	Renuka Kategbar	1/8/2022, 4:45 AM
Edit	tt_UtilityControllerTest	trihotips	47.0	Active	1,079	Renuka Kategbar	1/8/2022, 4:45 AM

The screenshot shows the Salesforce Setup interface with the 'Apex Jobs' page selected. The left sidebar has a search bar and categories like Email, Custom Code, Test, Environments, and Jobs. Under 'Jobs', 'Apex Jobs' is selected. The main area has a header 'SETUP Apex Jobs' with a 'Click here to go to the new batch jobs page' link. It displays a table of Apex jobs with one entry:

Action	Submitted Date	Job Type	Status	Status Detail	Total Batches	Batches Processed	Failures	Submitted By	Completion Date	Apex Class	Apex Method	Apex Job ID
	1/14/2022, 6:42 AM	Scheduled Apex	Queued		0	0	0	Katephar Ranuka		applicationschedule		7075f0000fnb1

Help for this Page

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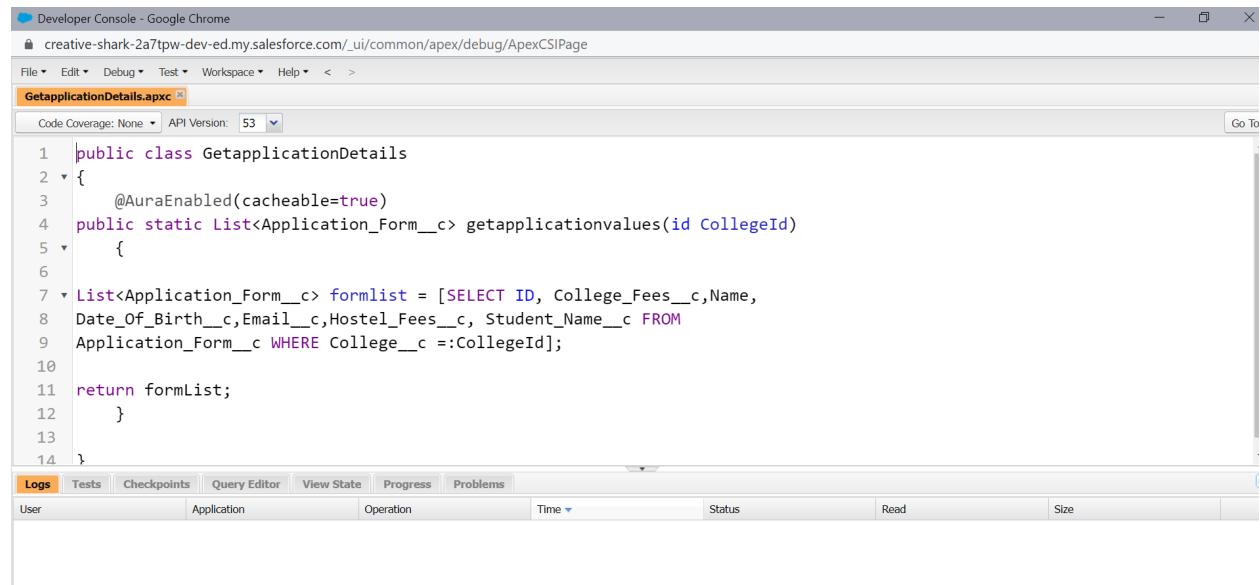
Day 5 :

Topic : Lighting Web Components (LWC)

Milestone / Activities : Created College DataTable Components for Apex class, HTML file, JAVASCRIPT file and META file.

Detailed Description : From the developer console I have created an apex class named GetapplicationDetails . In VisualStudioCode I have created html ,js, meta files.

Upload the Screenshot the Milestone / Activities :



The screenshot shows the Salesforce Developer Console interface. The title bar reads "Developer Console - Google Chrome" and the URL is "creative-shark-2a7tpw-dev-ed.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage". The menu bar includes File, Edit, Debug, Test, Workspace, Help, and navigation buttons. The main area displays the code for the "GetapplicationDetails.apxc" class:

```
1 public class GetapplicationDetails
2 {
3     @AuraEnabled(cacheable=true)
4     public static List<Application_Form__c> getapplicationvalues(id CollegeId)
5     {
6
7         List<Application_Form__c> formlist = [SELECT ID, College_Fees__c, Name,
8 Date_of_Birth__c, Email__c, Hostel_Fees__c, Student_Name__c FROM
9 Application_Form__c WHERE College__c =:CollegeId];
10
11    return formList;
12 }
13
14 }
```

Below the code editor, there are tabs for Logs, Tests, Checkpoints, Query Editor, View State, Progress, and Problems. The Logs tab is selected. At the bottom, there is a table with columns: User, Application, Operation, Time, Status, Read, and Size. The table is currently empty.

File Edit Selection View Go Run Terminal Help myfirstLWC.html - CollegeManagement - Visual Studio Code

OPEN EDITORS myfirstLWC.html JS myfirstLWC.js myfirstLWCjs-meta.xml

force-app > main > default > lwc > myfirstLWC > myfirstLWC.html > template > template > lightning-datable

```
1  <template>
2
3      <h1> College and Application form list table </h1>
4
5      <template if:true={recordList}>
6          <lightning-datable
7              key-field="id"
8              data={recordList}
9              show-row-number-column
10             hide-checkbox-column
11             columns={columnsList}
12         </lightning-datable>
13     </template>
14
15     <template if:true={error}>
16         {error}
17     </template>
18
19 </template>
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE Salesforce CLI

File Edit Selection View Go Run Terminal Help myfirstLWC.js - CollegeManagement - Visual Studio Code

OPEN EDITORS myfirstLWC.html JS myfirstLWC.js myfirstLWCjs-meta.xml

force-app > main > default > lwc > myfirstLWC > JS myfirstLWC.js > ...

```
1 import { LightningElement, api, wire } from 'lwc';
2 import getapplicationvalues
3 from '@salesforce/apex/GetapplicationDetails.getapplicationvalues';
4 export default class CollegeDataTable extends LightningElement {
5     columnsList = [
6         {label : 'Application Form' , fieldName : 'Name', type:'text' },
7         {label : 'College Fees' , fieldName : 'College_Fees__c', type:'currency' },
8         {label : 'Date Of Birth' , fieldName : 'Date_Of_Birth__c', type:'date' },
9         {label : 'Email' , fieldName : 'Email__c', type:'email' },
10        {label : 'Hostel Fees' , fieldName : 'Hostel_Fees__c', type:'Currency' },
11        {label : 'StudentName' , fieldName : 'Student_Name__c', type:'text' }
12    ];
13
14    @api recordId;
15    recordList;
16    error;
17
18    @wire(getapplicationvalues, {CollegeId : '$recordId'})
19    wiredCollegeData({data, error}){
20        if(data){
21            this.recordList = data;
22        }
23    }
24}
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE Salesforce CLI

The screenshot shows the Visual Studio Code interface with the Salesforce extension installed. The Explorer sidebar on the left lists project files and folders, including 'myfirstLWC.html', 'myfirstLWC.js', and 'myfirstLWC.js-meta.xml'. The main editor area displays the XML code for 'myfirstLWC.js-meta.xml'.

```
1 <?xml version="1.0"?>
2 <LightningComponentBundle
3 xmlns="http://soap.sforce.com/2006/04/metadata"
4 <apiVersion>51.0</apiVersion>
5 <isExposed>true</isExposed>
6 <targets>
7   <target>lightning__RecordPage</target>
8   <target>lightning__AppPage</target>
9   <target>lightning__HomePage</target>
10 </targets>
11 </LightningComponentBundle>
```

The bottom navigation bar includes tabs for PROBLEMS, OUTPUT, TERMINAL, and DEBUG CONSOLE, with the OUTPUT tab currently selected. A status bar at the bottom right shows 'Salesforce CLI'.