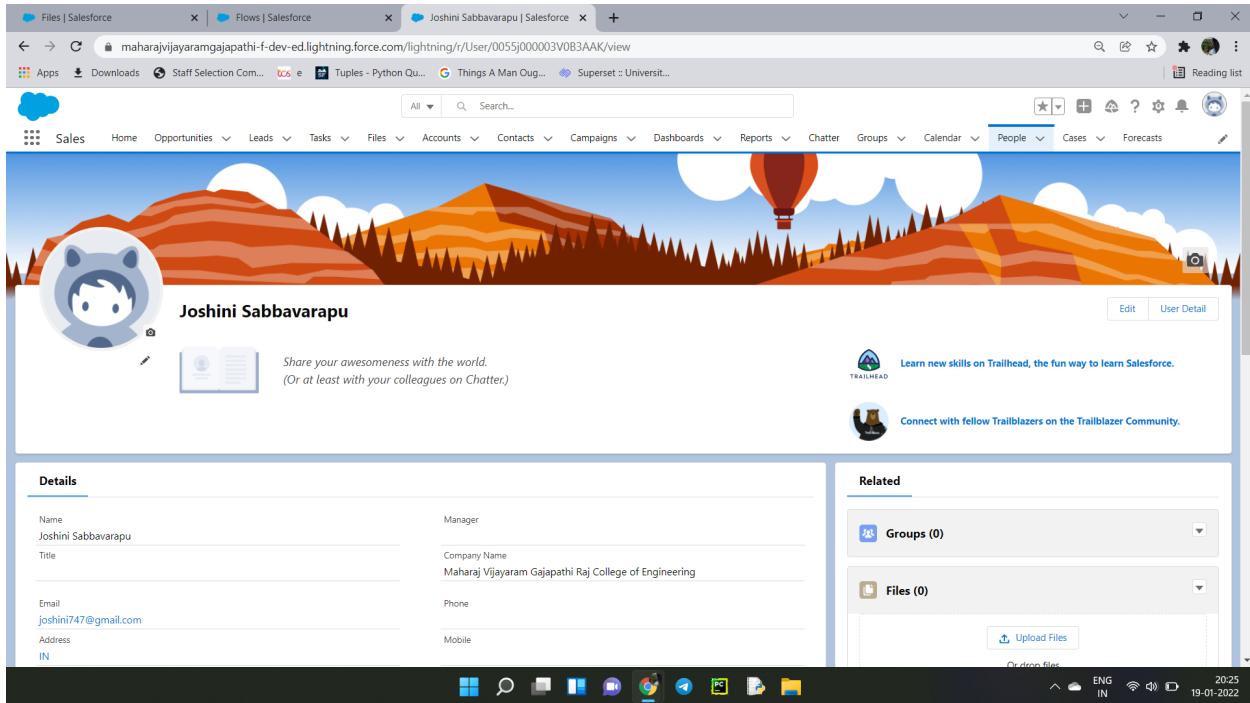


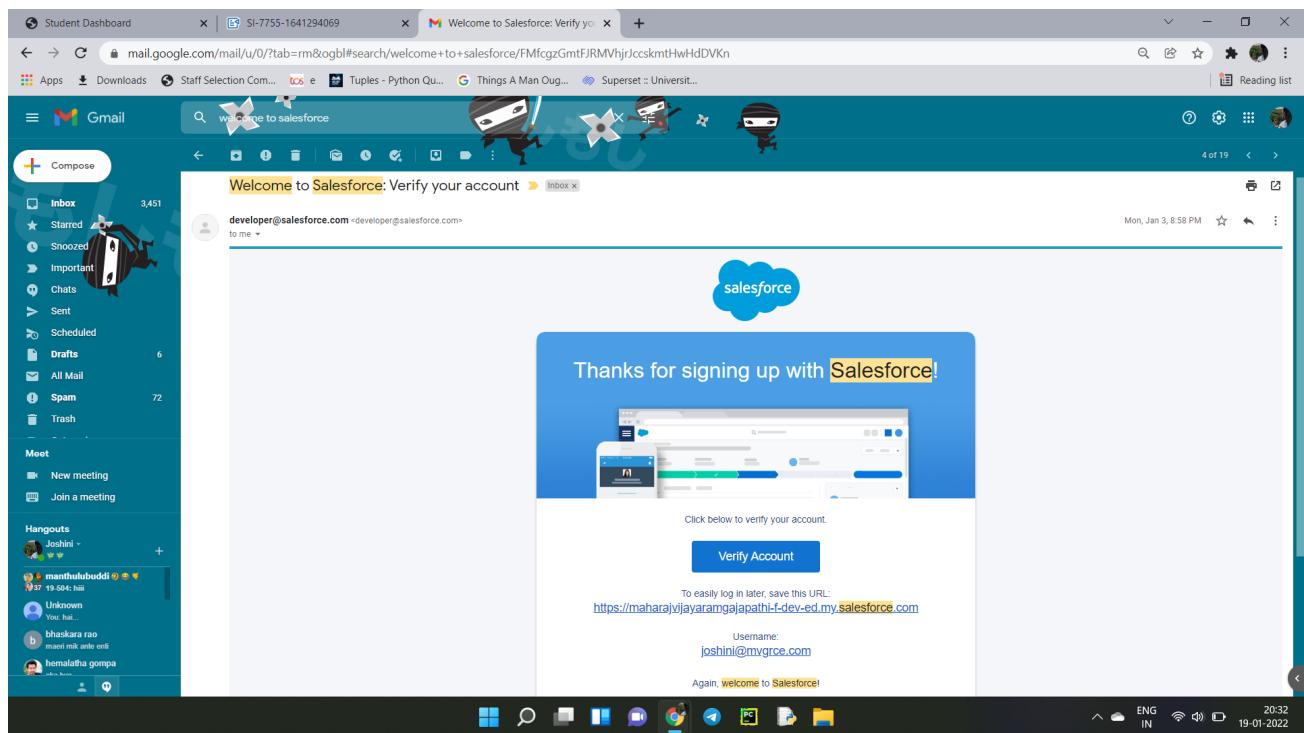
Task 1

Creating Developer Account :



Task 2

Account Activation :



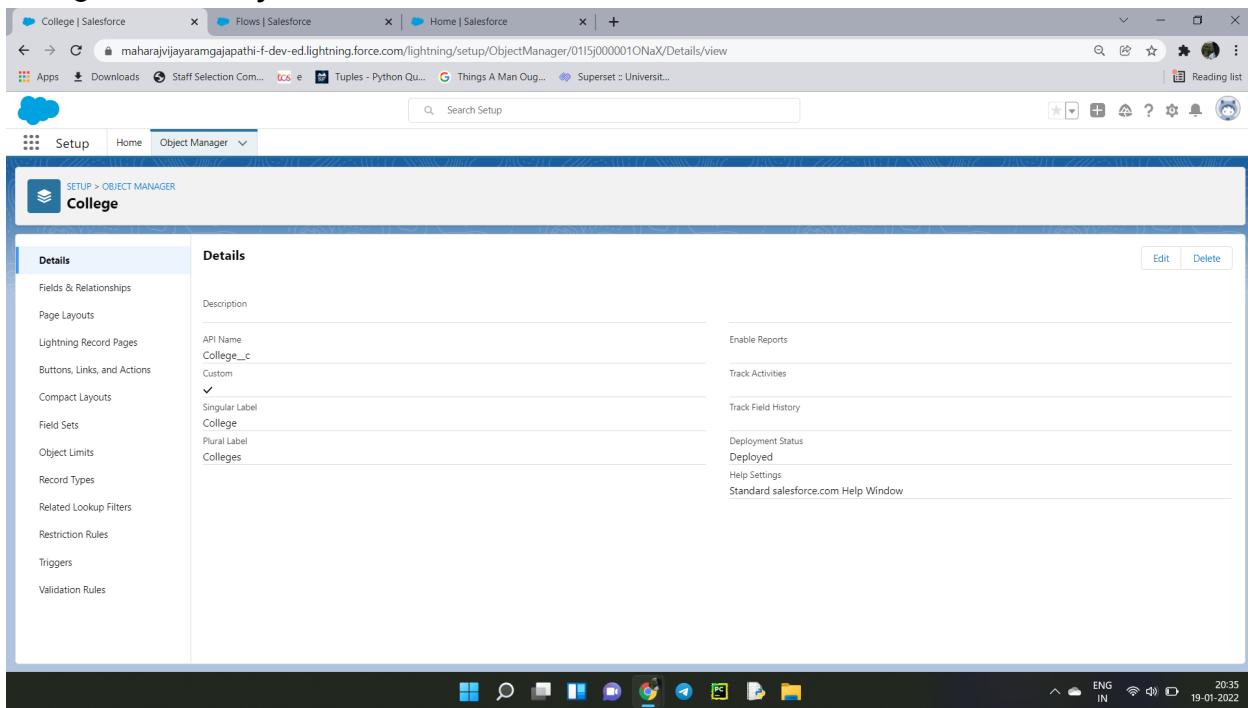
Task 3

Salesforce Login :

A screenshot of the Salesforce Setup Home page. The left sidebar includes sections for 'Setup Home', 'Service Setup Assistant', 'Multi-Factor Authentication Assistant', 'Release Updates', 'Lightning Experience Transition Assistant', 'New Salesforce Mobile App QuickStart', 'Lightning Usage', 'Optimizer', 'ADMINISTRATION' (with 'Users', 'Data', 'Email'), and 'PLATFORM TOOLS' (with 'Apps', 'Feature Settings', 'Einstein', 'Objects and Fields', 'Events'). The main content area features three cards: 'Get Started with Einstein Bots' (Launch an AI-powered bot to automate your digital connections), 'Mobile Publisher' (Use the Mobile Publisher to create your own branded mobile app), and 'Real-time Collaborative Docs' (Transform productivity with collaborative docs, spreadsheets, and slides inside Salesforce). Below these is a 'Most Recently Used' section showing '10 items' with entries for 'Joshini Sabbavarapu' (User) and 'applicationschedule' (Apex Class). The taskbar at the bottom shows various application icons.

Task 4

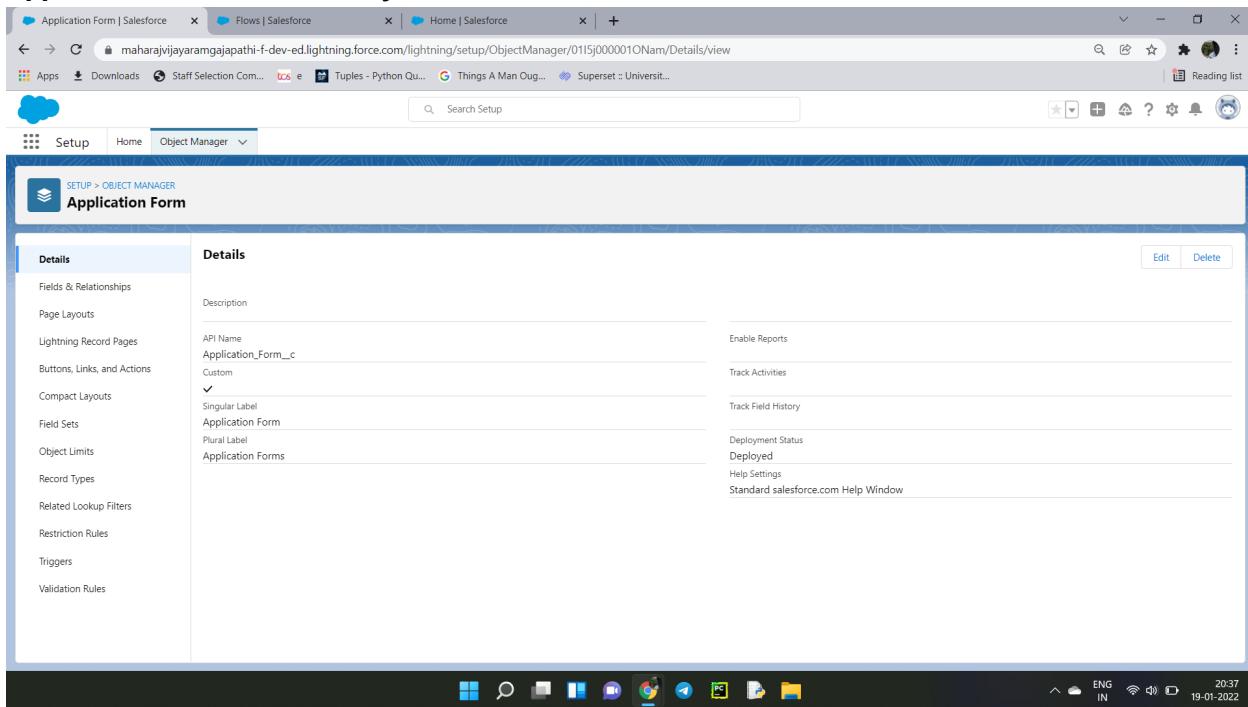
College Custom Object :



The screenshot shows the Salesforce Object Manager interface for a custom object named 'College'. The left sidebar lists various configuration options: Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, Restriction Rules, Triggers, and Validation Rules. The main 'Details' tab displays the following information:

Field	Value
Description	
API Name	College__c
Custom	✓
Singular Label	College
Plural Label	Colleges
Enable Reports	
Track Activities	
Track Field History	
Deployment Status	Deployed
Help Settings	Standard salesforce.com Help Window

Application Form Custom Object :



The screenshot shows the Salesforce Object Manager interface for a custom object named 'Application Form'. The left sidebar lists the same configuration options as the previous screenshot. The main 'Details' tab displays the following information:

Field	Value
Description	
API Name	Application_Form__c
Custom	✓
Singular Label	Application Form
Plural Label	Application Forms
Enable Reports	
Track Activities	
Track Field History	
Deployment Status	Deployed
Help Settings	Standard salesforce.com Help Window

Student Custom Object :

The screenshot shows the Salesforce Object Manager interface for a custom object named 'Students'. The left sidebar lists various configuration options: Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, Restriction Rules, Triggers, and Validation Rules. The main 'Details' tab displays the following information:

Field	Value
Description	
API Name	Students__c
Custom	✓
Singular Label	Students
Plural Label	Students
Enable Reports	
Track Activities	
Track Field History	
Deployment Status	Deployed
Help Settings	Standard salesforce.com Help Window

The status bar at the bottom indicates the system is in English (ENG), India (IN), and the date is 19-01-2022.

Subject Custom Object :

The screenshot shows the Salesforce Object Manager interface for a custom object named 'Subjects'. The left sidebar lists the same configuration options as the previous screenshot. The main 'Details' tab displays the following information:

Field	Value
Description	
API Name	Subjects__c
Custom	✓
Singular Label	Subjects
Plural Label	Subjects
Enable Reports	
Track Activities	
Track Field History	
Deployment Status	Deployed
Help Settings	Standard salesforce.com Help Window

The status bar at the bottom indicates the system is in English (ENG), India (IN), and the date is 19-01-2022.

Task 5

fields on College Object :

The screenshot shows the Salesforce Object Manager interface for the 'College' object. The left sidebar lists various setup categories like Details, Fields & Relationships, Page Layouts, etc. The main content area is titled 'Fields & Relationships' and displays 10 items sorted by Field Label. A table provides details for each field, including Field Label, Field Name, Data Type, Controlling Field, and Indexed status.

	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(18, 0)			
College ID	College_ID_c	Auto Number			
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(18, 0)			
Last Modified By	LastModifiedById	Lookup(User)			
Owner	OwnerId	Lookup(User,Group)			✓

Task 6

fields on Application Form Object :

Screenshot of the Salesforce Object Manager interface for the "Application Form" object.

The "Fields & Relationships" section shows 16 items, sorted by Field Label. The table includes columns for FIELD LABEL, FIELD NAME, DATA TYPE, CONTROLLING FIELD, and INDEXED.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Address	Address__c	Text Area(255)		
Application Form ID	Application_Form_ID__c	Auto Number		
Application Form Name	Name	Text(80)		✓
College	College__c	Master-Detail(College)		✓
College Fees	College_Fees__c	Formula (Currency)		
College Name	College_Name__c	Picklist		
Created By	CreatedById	Lookup(User)		
date of Birth	date_of_Birth__c	Date		
Email	Email__c	Email (Unique)		✓
Guardian Name	Guardian_Name__c	Text(30)		

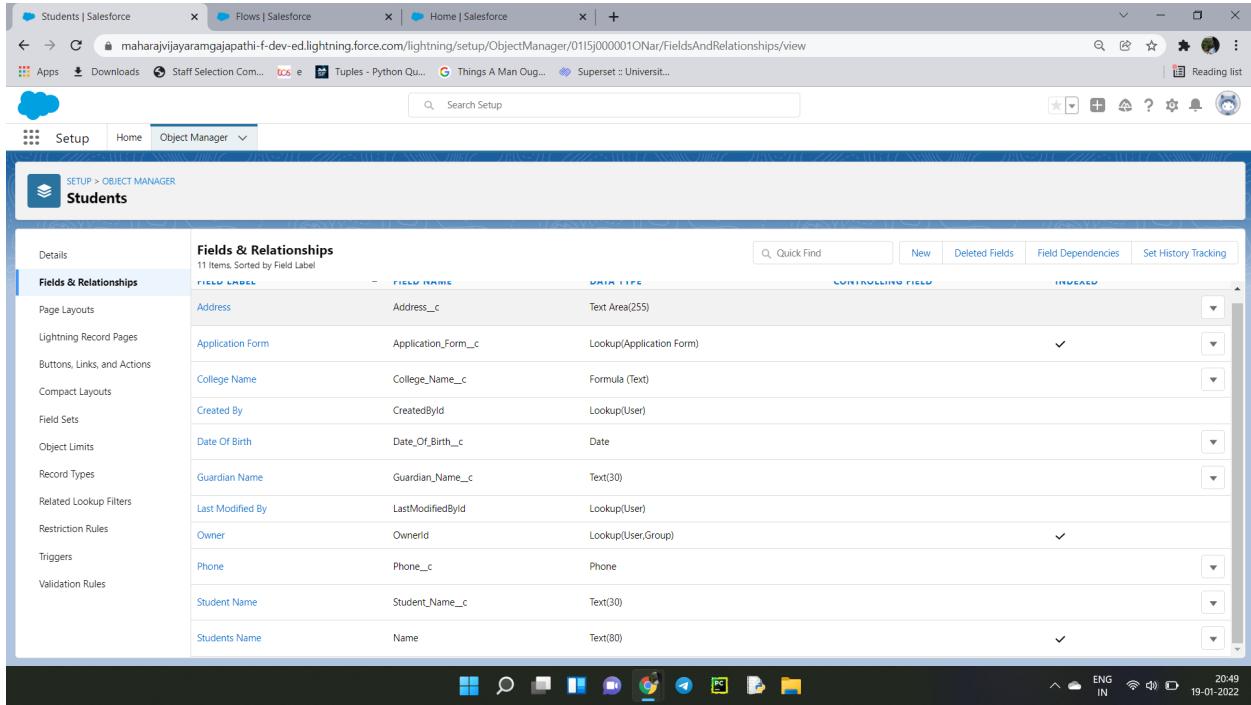
Screenshot of the Salesforce Object Manager interface for the "Application Form" object.

The "Fields & Relationships" section shows 16 items, sorted by Field Label. The table includes columns for FIELD LABEL, FIELD NAME, DATA TYPE, CONTROLLING FIELD, and INDEXED.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
College Name	College_Name__c	Picklist		
Created By	CreatedById	Lookup(User)		
date of Birth	date_of_Birth__c	Date		
Email	Email__c	Email (Unique)		✓
Guardian Name	Guardian_Name__c	Text(30)		
Hostel Fees	Hostel_Fees__c	Formula (Currency)		
Last Modified By	LastModifiedById	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)		

Task 7:

fields on Student Object :



The screenshot shows the Salesforce Object Manager interface for the 'Students' object. The left sidebar lists various configuration options: Details, Fields & Relationships (selected), Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, Restriction Rules, Triggers, and Validation Rules. The main content area displays the 'Fields & Relationships' section with 11 items, sorted by Field Label. The table columns include FIELD LABEL, FIELD NAME, DATA TYPE, CONTROLLING FIELD, and INVERSE. The fields listed are: Address (Address__c, Text Area(255)), Application Form (Application_Form__c, Lookup(Application Form)), College Name (College_Name__c, Formula (Text)), Created By (CreatedBy, Lookup(User)), Date Of Birth (DateOfBirth__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)), and Students Name (Name, Text(80)).

Task 8:

fields on Subject Object :

Fields & Relationships

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
College ID	CollegeID_c	Auto Number		
Created By	CreatedBy	Lookup(User)		
Last Modified By	LastModifiedBy	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)		
Paper 1	Paper_1_c	Picklist		
Paper 2	Paper_2_c	Picklist		
Students	Students_c	Lookup(Students)		
Subject ID	Subject_ID_c	Auto Number		
Subjects Name	Name	Text(80)		

Task 9

Creating Global Picklist Value for college name, Paper1, Paper 2 :

Field Dependencies

Action	Dependent Field	Data Type	Modified By
Edit Del	Capacity Of Students	Picklist	Joshiini Sabbavarapu, 1/4/2022, 6:29 AM
Edit Del	Email	Picklist	Joshiini Sabbavarapu, 1/19/2022, 7:34 AM

Validation Rules

New
No validation rules defined.

Values

Action	Values	API Name	Default	Chart Colors	Modified By
Edit Del Deactivate	Date	Date	<input type="checkbox"/>	Assigned dynamically	Joshiini Sabbavarapu, 1/4/2022, 5:28 AM
Edit Del Deactivate	Budget	Budget	<input type="checkbox"/>	Assigned dynamically	Joshiini Sabbavarapu, 1/4/2022, 5:28 AM
Edit Del Deactivate	MIT-HYD	MIT-HYD	<input type="checkbox"/>	Assigned dynamically	Joshiini Sabbavarapu, 1/19/2022, 7:33 AM
Edit Del Deactivate	MIT-BLR	MIT-BLR	<input type="checkbox"/>	Assigned dynamically	Joshiini Sabbavarapu, 1/19/2022, 7:33 AM
Edit Del Deactivate	MIT-MUM	MIT-MUM	<input type="checkbox"/>	Assigned dynamically	Joshiini Sabbavarapu, 1/19/2022, 7:33 AM
Edit Del Deactivate	MIT-MAA	MIT-MAA	<input type="checkbox"/>	Assigned dynamically	Joshiini Sabbavarapu, 1/19/2022, 7:33 AM
Edit Del Deactivate	MIT-DEL	MIT-DEL	<input type="checkbox"/>	Assigned dynamically	Joshiini Sabbavarapu, 1/19/2022, 7:33 AM
Edit Del Deactivate	MIT-CCU	MIT-CCU	<input type="checkbox"/>	Assigned dynamically	Joshiini Sabbavarapu, 1/19/2022, 7:33 AM

Inactive Values

No Inactive Values values defined.

Picklist Options
Restrict picklist to the values defined in the value set ✓
Controlling Field [New]

Picklist Values Used
Active and inactive picklist values 4 (1,000 max)

Field Dependencies [New] Field Dependencies Help ?
No dependencies defined.

Validation Rules [New] Validation Rules Help ?
No validation rules defined.

Values [New] Reorder Replace Printable View Chart Colors ▾

Action	Values	API Name	Default	Chart Colors	Modified By
Edit Del Deactivate	APEX	APEX	<input type="checkbox"/>	Assigned dynamically	Joshini Sabbavarapu, 1/4/2022, 6:19 AM
Edit Del Deactivate	JAVA	JAVA	<input type="checkbox"/>	Assigned dynamically	Joshini Sabbavarapu, 1/4/2022, 6:19 AM
Edit Del Deactivate	C	C	<input type="checkbox"/>	Assigned dynamically	Joshini Sabbavarapu, 1/4/2022, 6:19 AM
Edit Del Deactivate	C++	C++	<input type="checkbox"/>	Assigned dynamically	Joshini Sabbavarapu, 1/4/2022, 6:19 AM

Inactive Values
No Inactive Values values defined.

Picklist Options
Restrict picklist to the values defined in the value set ✓
Controlling Field [New]

Picklist Values Used
Active and inactive picklist values 3 (1,000 max)

Field Dependencies [New] Field Dependencies Help ?
No dependencies defined.

Validation Rules [New] Validation Rules Help ?
No validation rules defined.

Values [New] Reorder Replace Printable View Chart Colors ▾

Action	Values	API Name	Default	Chart Colors	Modified By
Edit Del Deactivate	MATHEMATICS	MATHEMATICS	<input type="checkbox"/>	Assigned dynamically	Joshini Sabbavarapu, 1/4/2022, 6:19 AM
Edit Del Deactivate	ENGLISH	ENGLISH	<input type="checkbox"/>	Assigned dynamically	Joshini Sabbavarapu, 1/4/2022, 6:19 AM
Edit Del Deactivate	STATISTICS	STATISTICS	<input type="checkbox"/>	Assigned dynamically	Joshini Sabbavarapu, 1/4/2022, 6:19 AM

Inactive Values
No Inactive Values values defined.

Task 10:

Field Dependencies :

The screenshot shows the Salesforce setup interface for the 'College' object. The left sidebar lists various configuration options like Details, Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, Restriction Rules, Triggers, and Validation Rules. The main content area is titled 'College Field Dependencies' and describes how to define dependencies between fields. A table titled 'Field Dependencies' lists two entries:

Action	Controlling Field	Dependent Field	Modified By
Edit Del	College Name	Email	Joshini Sabbavaraju, 1/19/2022, 7:34 AM
Edit Del	College Name	Capacity Of Students	Joshini Sabbavaraju, 1/4/2022, 6:29 AM

Task 11

Validation Rule on College Object :

The screenshot shows the Salesforce Setup interface for the 'College' object. The left sidebar lists various setup categories like Details, Fields & Relationships, Page Layouts, etc. The main content area displays the 'College Validation Rule' details. The validation rule is named 'College_Name' and is active. The error condition formula is 'TEXT(College_Name__c) <> Name'. The error message is 'college name and record info'. The rule was created by 'Joshini Sabbavarapu' on 1/4/2022 at 6:32 AM and modified by the same user on the same date and time.

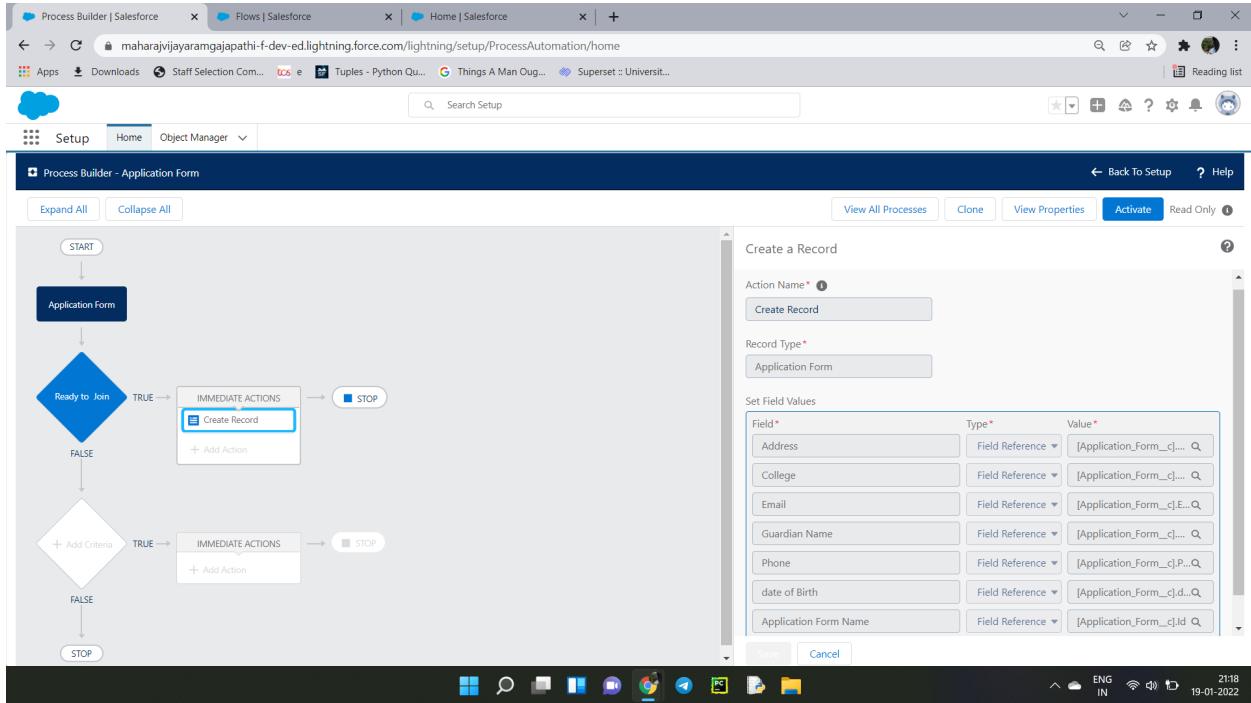
Task 12

Validation Rule on Application Form Object :

The screenshot shows the Salesforce Setup interface for the 'Application Form' object. The left sidebar lists various setup categories. The main content area displays the 'Application Form Validation Rule' details. The validation rule is named 'record_creation' and is active. The error condition formula is 'AND(Ready_To_Join__c == true, OR(ISCHANGED(Address__c), ISCHANGED(Degree__c), ISCHANGED(DOB__c), ISCHANGED(Email__c), ISCHANGED(Guardian_Name__c), ISCHANGED(Phone__c)))'. The error message is 'no modification on the application form once a student record is created'. The rule was created by 'Joshini Sabbavarapu' on 1/11/2022 at 10:39 PM and modified by the same user on the same date and time.

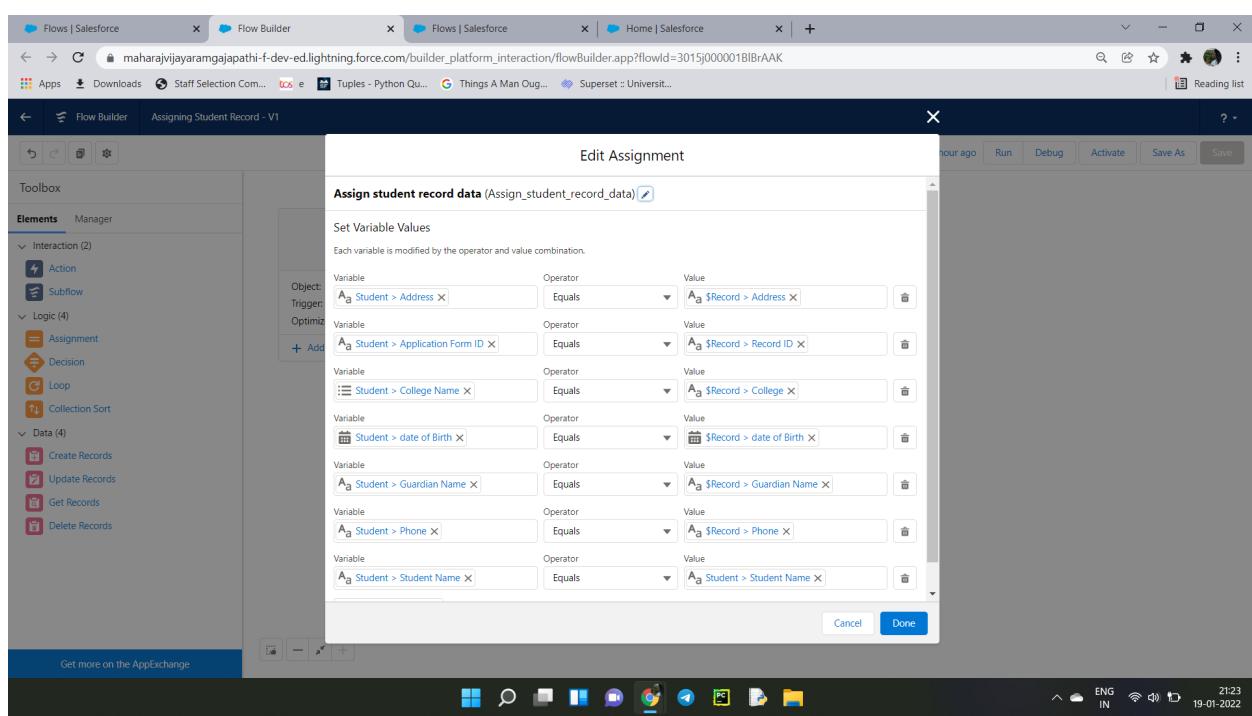
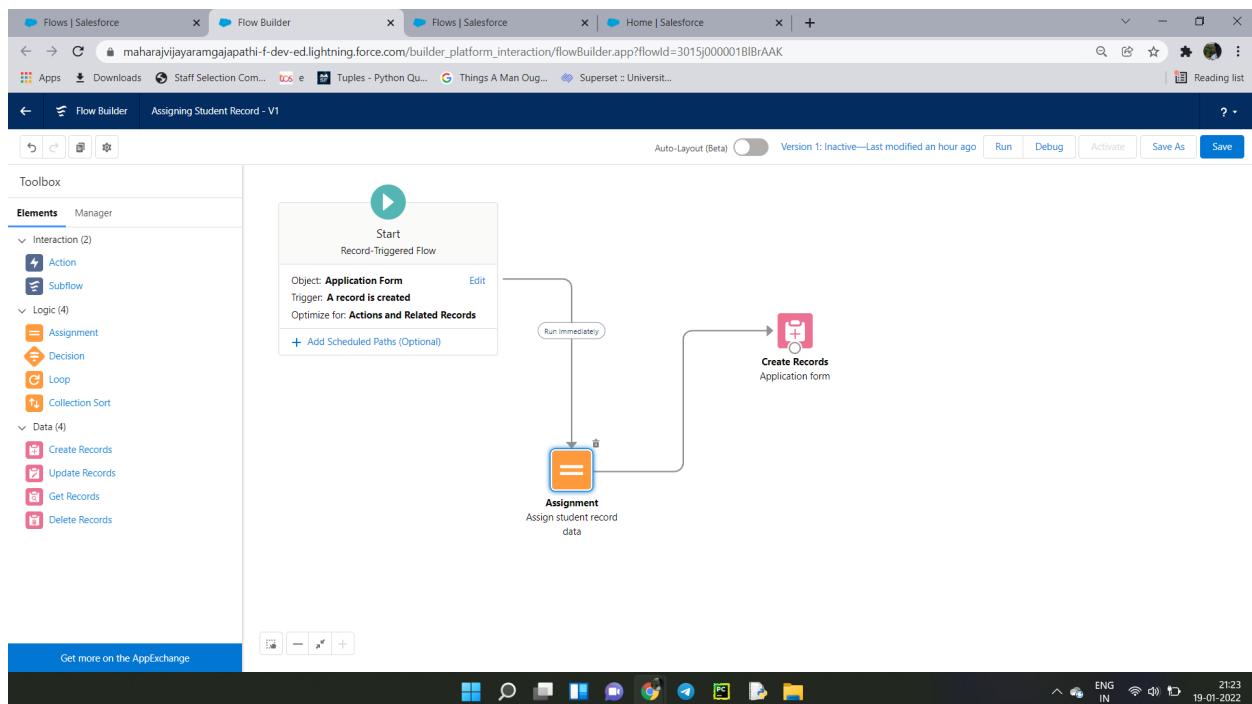
Task 13

Process Automation:



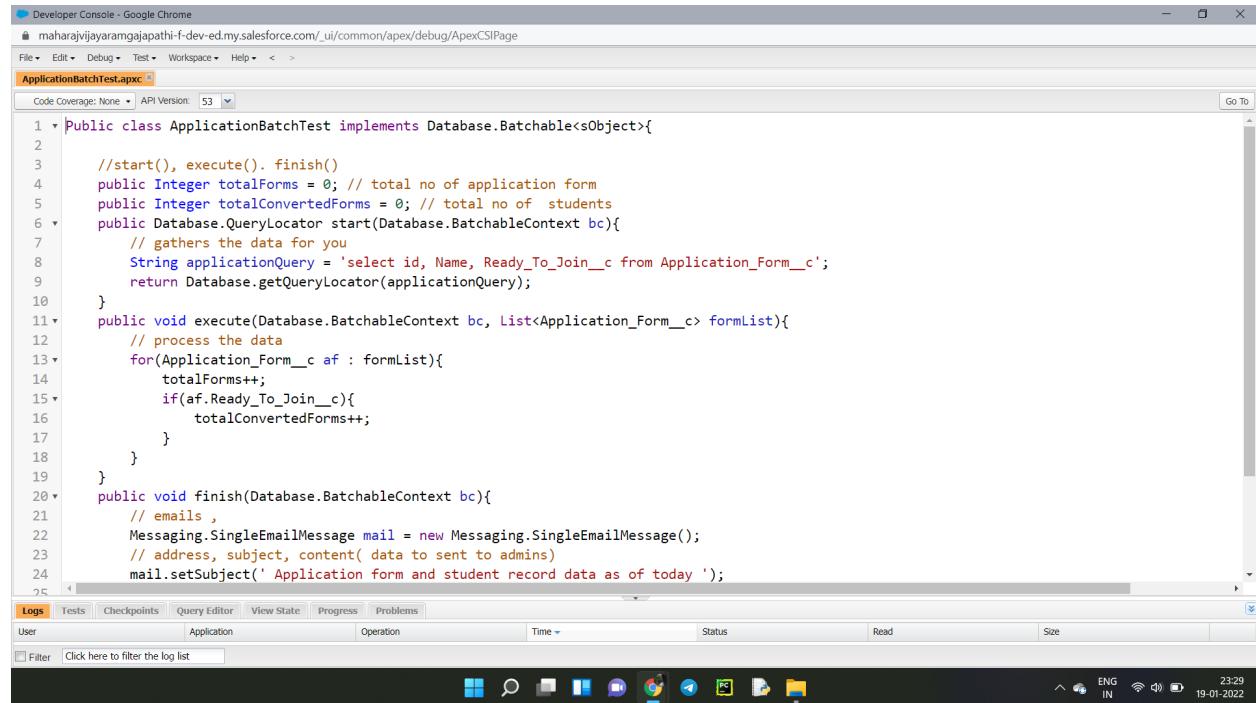
Task 14:

Student Record:



Task 15

Batch Apex for Application Form :



The screenshot shows the Salesforce Developer Console interface. The title bar reads "Developer Console - Google Chrome" and the URL is "maharajiyajayaramgajapathi-f-dev-ed.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage". The main area displays the code for the class "ApplicationBatchTest.apxc". The code implements the Database.Batchable<sObject> interface. It defines a start method to query application forms, an execute method to process each form, and a finish method to send an email summary. The code uses Messaging.SingleEmailMessage to send an email with the subject "Application form and student record data as of today". The developer's name "maharajiyajayaramgajapathi-f-dev-ed" is visible in the URL.

```
1 // Public class ApplicationBatchTest implements Database.Batchable<sObject>{
2
3     //start(), execute(). finish()
4     public Integer totalForms = 0; // total no of application form
5     public Integer totalConvertedForms = 0; // total no of students
6     public Database.QueryLocator start(Database.BatchableContext bc){
7         // gathers the data for you
8         String applicationQuery = 'select id, Name, Ready_To_Join__c from Application_Form__c';
9         return Database.getQueryLocator(applicationQuery);
10    }
11    public void execute(Database.BatchableContext bc, List<Application_Form__c> formList){
12        // process the data
13        for(Application_Form__c af : formList){
14            totalForms++;
15            if(af.Ready_To_Join__c){
16                totalConvertedForms++;
17            }
18        }
19    }
20    public void finish(Database.BatchableContext bc){
21        // emails ,
22        Messaging.SingleEmailMessage mail = new Messaging.SingleEmailMessage();
23        // address, subject, content( data to sent to admins)
24        mail.setSubject(' Application form and student record data as of today ');
25    }
}
```

The console also shows a "Logs" tab with a log entry:

User	Application	Operation	Time	Status	Read	Size
Click here to filter the log list						

At the bottom, there are system status icons and a timestamp "23:29 19-01-2022".

Developer Console - Google Chrome
maharajivijayaramgajapathi-f-dev-ed.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help < >

ApplicationBatchTest.apxc

Code Coverage: None API Version: 53 Go To

```

7 // gathers the data for you
8 String applicationQuery = 'select id, Name, Ready_To_Join__c from Application_Form__c';
9 return Database.getQueryLocator(applicationQuery);
10 }
11 public void execute(Database.BatchableContext bc, List<Application_Form__c> formList){
12     // process the data
13     for(Application_Form__c af : formList){
14         totalForms++;
15         if(af.Ready_To_Join__c){
16             totalConvertedForms++;
17         }
18     }
19 }
20 public void finish(Database.BatchableContext bc){
21     // emails ,
22     Messaging.SingleEmailMessage mail = new Messaging.SingleEmailMessage();
23     // address, subject, content( data to sent to admins)
24     mail.setSubject(' Application form and student record data as of today ');
25     mail.setPlainTextBody(' Total no of application form records are : '+totalForms+ ' out of which no of students as per today : '+totalConvertedForms+ );
26     String[] emailAddess = new String[]{your_email_address};
27     mail.setToAddresses(emailAddess);
28     Messaging.sendEmail(new Messaging.SingleEmailMessage[]{ mail });
29 }
30 }
```

Logs Tests Checkpoints Query Editor View State Progress Problems

User	Application	Operation	Time	Status	Read	Size
Filter Click here to filter the log list						

23:30 ENG IN 19-01-2022

Task 16

A Scheduler Class :

Developer Console - Google Chrome
maharajivijayaramgajapathi-f-dev-ed.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help < >

ApplicationBatchTest.apxc

Code Coverage: None API Version: 53 Go To

```

1 public class applicationschedule implements Schedulable{
2
3
4
5     public void execute(SchedulableContext sc){
6
7         ApplicationBatchTest abt = new ApplicationBatchTest();
8
9         Database.executeBatch(abt, 400); // 200 to 2000
10
11
12     }
13
14 }
```

Logs Tests Checkpoints Query Editor View State Progress Problems

Name	Line	Problem

21:28 ENG IN 19-01-2022

Task 17

College DataTable component(APEX class)

The screenshot shows the Salesforce Setup interface with the 'Apex Classes' tab selected. The page displays the 'GetapplicationDetails' class under the 'Apex Classes' category. The class detail page includes fields for Name (GetapplicationDetails), Namespace Prefix, Created By (Joshini Sabhavaraju), Created Date (1/20/2022, 5:51 AM), Status (Active), Code Coverage (0% (0/4)), Last Modified By (Joshini Sabhavaraju), and Last Modified Date (1/20/2022, 5:51 AM). Below the details, the 'Class Body' tab is selected, showing the Apex code:

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

Task 18

College DataTable Component(HTML file)

Salesforce LWC Editor (Beta)

Search Apex or Component...

APEX CLASSES

- ApplicationBatchTest
- applicationschedule
- GetapplicationDetails
- MyBatchClass

LIGHTNING WEB COMPONENTS

- componentn
- componentn.html
- componentn.js
- componentn.css
- componentn.js-meta.xml
- componentn.svg

```
<template>
<template>
The template element is used to declare fragments of HTML that can be cloned and inserted in the document by script.
MDN Reference
<lightning-datatable
  key-field="id"
  data={recordList}
  show-row-number-column
  hide-checkbox-column
  columns={columnsList}
>
</lightning-datatable>
</template>
<template if:true={error}>
  (error)
</template>
</template>
```

Result Panel

```
1 componentn.html successfully deployed source 1/20/2022 7:35:34 PM
2 componentn.js successfully deployed source 1/20/2022 7:35:34 PM
3 componentn.js-meta.xml successfully deployed source 1/20/2022 7:35:34 PM
```

Use LWC Standard Deployment?

ENG IN 19:35 20-01-2022

Maharaj Vijayaram Gajapathi Raj College of Engineering

Task 19

College DataTable Component(Java Script file)

Salesforce LWC Editor (Beta)

Search Apex or Component...

APEX CLASSES

- ApplicationBatchTest
- applicationschedule
- GetapplicationDetails
- MyBatchClass

LIGHTNING WEB COMPONENTS

- componentn
- componentn.html
- componentn.js
- componentn.css
- componentn.js-meta.xml
- componentn.svg

```
import { LightningElement, api, wire } from 'lwc';
import getapplicationvalues
from '@salesforce/apex/GetapplicationDetails.getapplicationvalues';
export default class CollegeDataTable extends LightningElement {
  columnsList = [
    {label : 'Application Form' , fieldName : 'Name', type:'text'},
    {label : 'College Fees' , fieldName : 'College_Fees__c', type:'currency'},
    {label : 'Date of Birth' , fieldName : 'Date_of_Birth__c', type:'date'},
    {label : 'Email' , fieldName : 'Email__c', type:'email'},
    {label : 'Hostel Fees' , fieldName : 'Hostel_Fees__c', type:'Currency'},
    {label : 'Student Name' , fieldName : 'Student_Name__c', type:'text'}
  ];
  @api recordId;
  recordList;
  error;
  @wire(getapplicationvalues, {CollegeId : '$recordId'})
  wiredCollegeData({data, error}){
    if(data){
      this.recordList = data;
    }
    else if(error){
    }
  }
}
```

Result Panel

```
1 componentn.html successfully deployed source 1/20/2022 7:35:34 PM
2 componentn.js successfully deployed source 1/20/2022 7:35:34 PM
3 componentn.js-meta.xml successfully deployed source 1/20/2022 7:35:34 PM
```

Use LWC Standard Deployment?

ENG IN 19:35 20-01-2022

Maharaj Vijayaram Gajapathi Raj College of Engineering

Task 20

College DataTable Component(META file)

The screenshot shows the Salesforce LWC Editor interface. On the left, the sidebar displays 'APEX CLASSES' and 'LIGHTNING WEB COMPONENTS'. Under 'LIGHTNING WEB COMPONENTS', there is a folder named 'componentn' containing files: componentn.html, componentn.js, componentn.css, componentn.js-meta.xml, and componentn.svg. The main editor area shows the content of componentn.js-meta.xml:

```
<?xml version="1.0"?>
<LightningComponentBundle
    xmlns="http://soap.sforce.com/2006/04/metadata">
    <apiVersion>51.0</apiVersion>
    <isExposed>true</isExposed>
    <targets>
        <target>lightning__RecordPage</target>
        <target>lightning__AppPage</target>
        <target>lightning__HomePage</target>
    </targets>
</LightningComponentBundle>
```

Below the editor is the 'Result Panel' which lists three successful deployments:

Deployment Log	Date
1 componentn.html successfully deployed source	1/20/2022 7:35:34 PM
2 componentn.js successfully deployed source	1/20/2022 7:35:34 PM
3 componentn.js-meta.xml successfully deployed source	1/20/2022 7:35:34 PM

The bottom status bar shows the college name 'Maharaj Vijayaram Gajapathi Raj College of Engineering', deployment options, system status, and the date '20-01-2022'.

Task 21