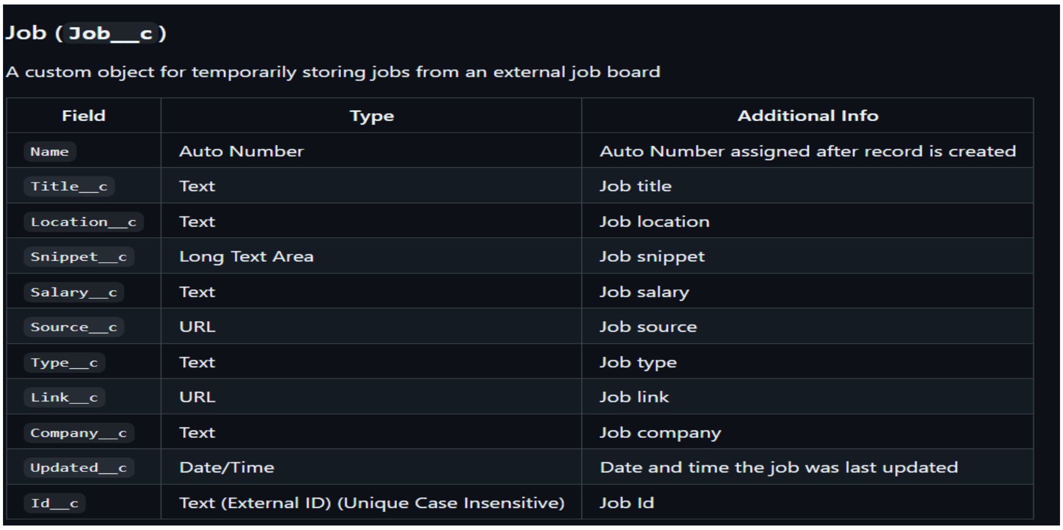
Job Application Tracker on Sales Force

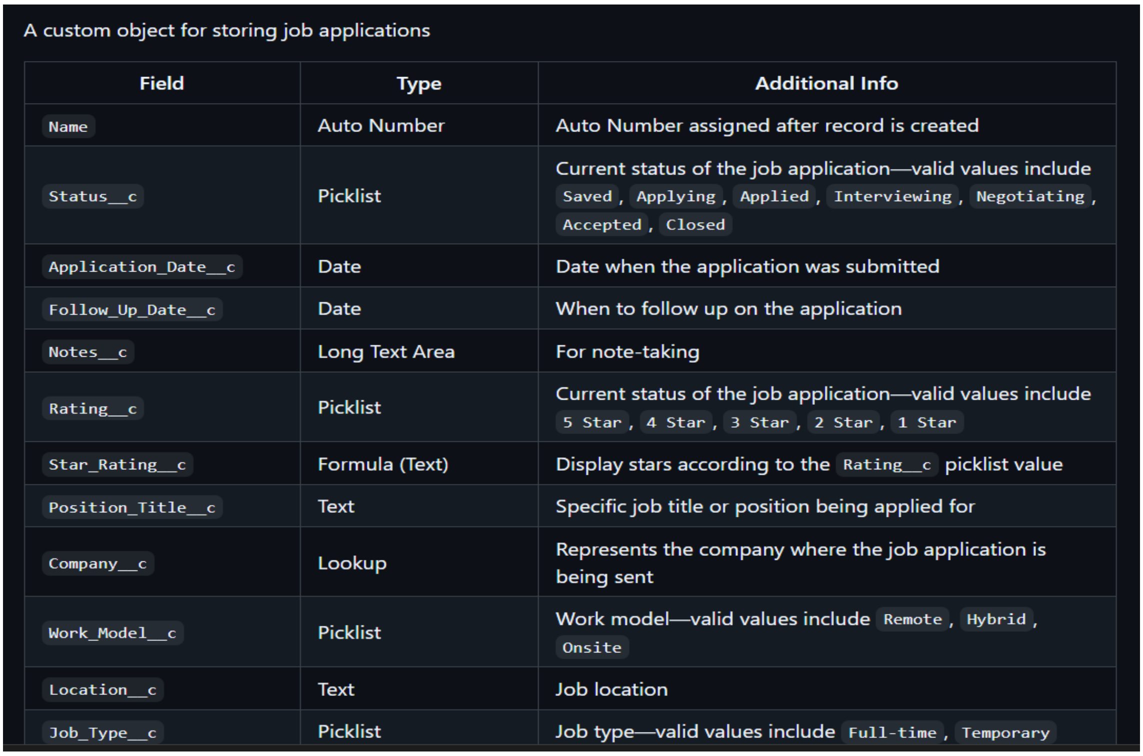
Phase 3: Data Modeling & Relationships



Job (Job__c)

A custom object for temporarily storing jobs from an external job board

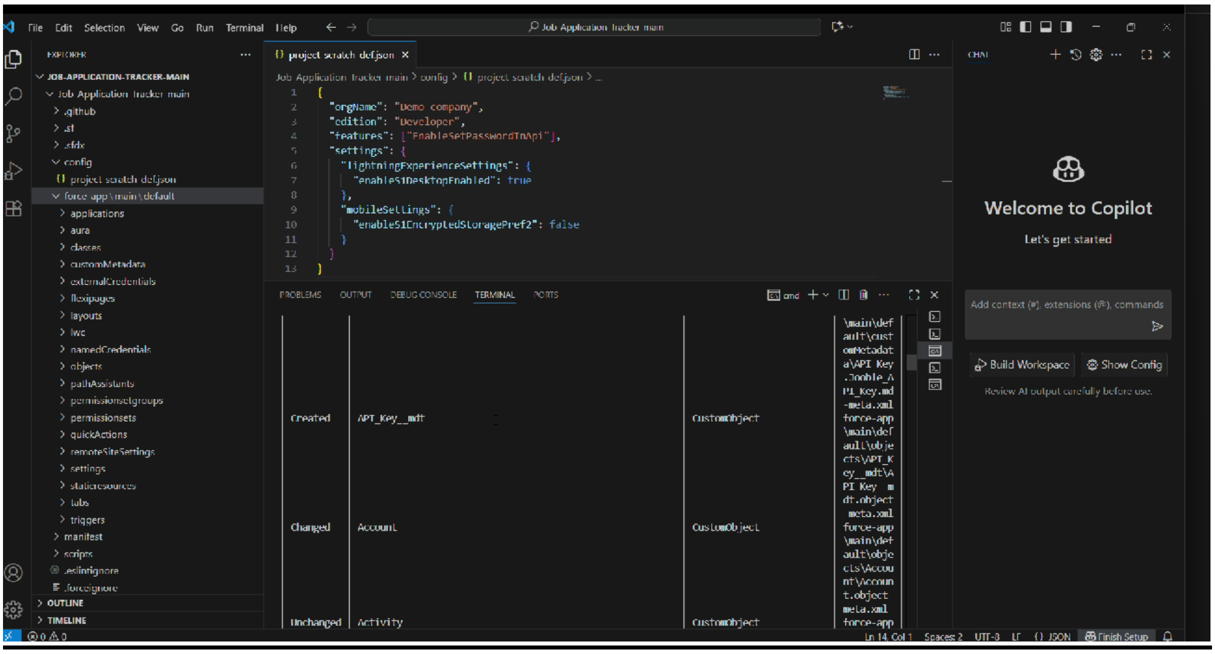
Field	Type	Additional Info
`Name`	Auto Number	Auto Number assigned after record is created
`Title__c`	Text	Job title
`Location__c`	Text	Job location
`Snippet__c`	Long Text Area	Job snippet
`Salary__c`	Text	Job salary
`Source__c`	URL	Job source
`Type__c`	Text	Job type
`Link__c`	URL	Job link
`Company__c`	Text	Job company
`Updated__c`	Date/Time	Date and time the job was last updated
`Id__c`	Text (External ID) (Unique Case Insensitive)	Job Id



A custom object for storing job applications

Field	Type	Additional Info
`Name`	Auto Number	Auto Number assigned after record is created
`Status__c`	Picklist	Current status of the job application—valid values include `Saved` , `Applying` , `Applied` , `Interviewing` , `Negotiating` , `Accepted` , `Closed`
`Application_Date__c`	Date	Date when the application was submitted
`Follow_Up_Date__c`	Date	When to follow up on the application
`Notes__c`	Long Text Area	For note-taking
`Rating__c`	Picklist	Current status of the job application—valid values include `5 Star` , `4 Star` , `3 Star` , `2 Star` , `1 Star`
`Star_Rating__c`	Formula (Text)	Display stars according to the `Rating__c` picklist value
`Position_Title__c`	Text	Specific job title or position being applied for
`Company__c`	Lookup	Represents the company where the job application is being sent
`Work_Model__c`	Picklist	Work model—valid values include `Remote` , `Hybrid` , `Onsite`
`Location__c`	Text	Job location
`Job_Type__c`	Picklist	Job type—valid values include `Full-time` , `Temporary`

VS Code Execution:



```
{
  "orgName": "Demo company",
  "edition": "Developer",
  "features": ["EnableSetPasswordInApi"],
  "settings": {
    "lightningExperienceSettings": {
      "enableS1DesktopEnabled": true
    },
    "mobileSettings": {
      "enableS1EncryptedStoragePref2": false
    }
  }
}
```

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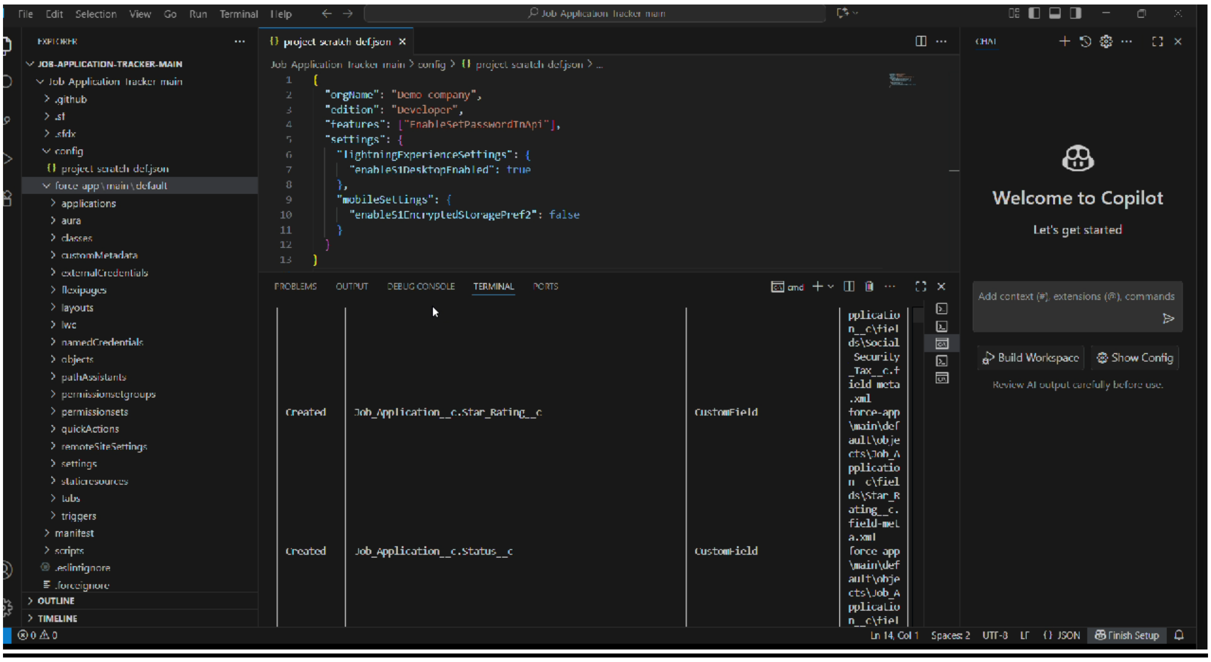

```
{
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  "settings": {
    "lightningExperienceSettings": {
      "enableS1DesktopEnabled": true
    },
    "mobileSettings": {
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  }
}
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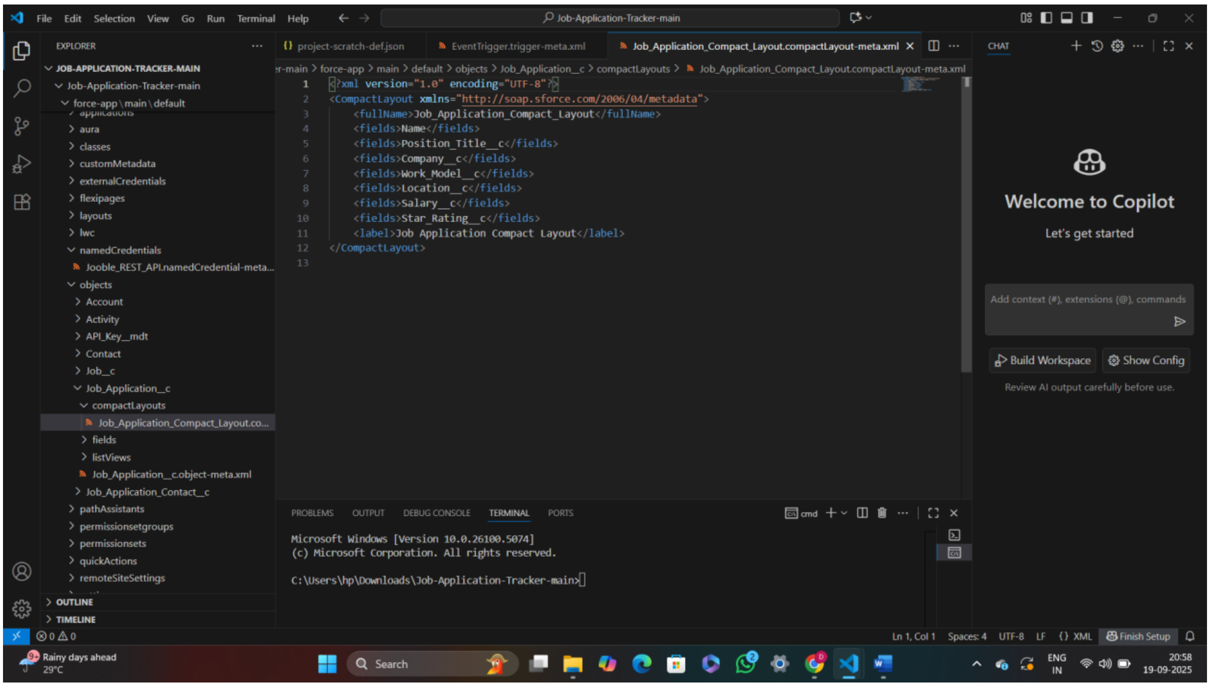
File Edit Selection View Go Run Terminal Help
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CHAT
Welcome to Copilot
Let's get started
Add context (#), extensions (@), commands
Build Workspace
Show Config
Review AI output carefully before use.
Ln 1, Col 1 Spaces: 4 UTF-8 LF {} XML Finish Setup
Rainy days ahead
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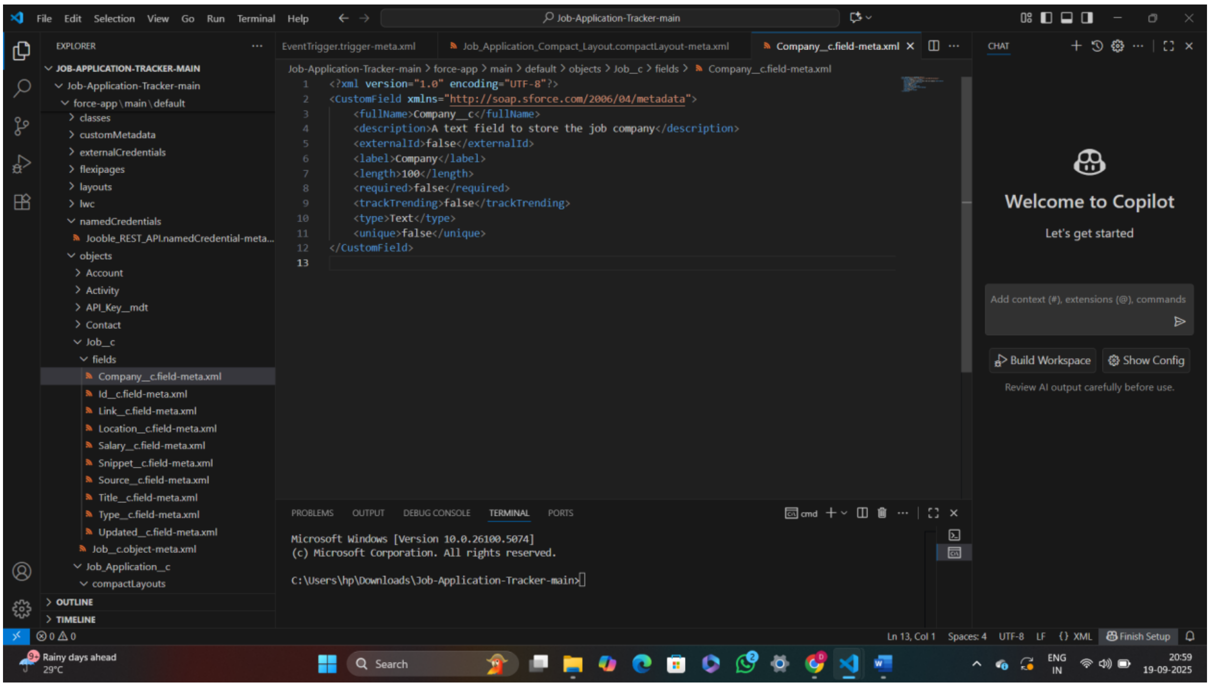
19-09-2025

```xml
<?xml version="1.0" encoding="UTF-8"?>
<CompactLayout xmlns="http://soap.sforce.com/2006/04/metadata">
    <fullName>Job_Application_Compact_Layout</fullName>
    <fields>Name</fields>
    <fields>Position_Title__c</fields>
    <fields>Company__c</fields>
    <fields>Work_Model__c</fields>
    <fields>Location__c</fields>
    <fields>Salary__c</fields>
    <fields>Star_Rating__c</fields>
    <label>Job Application Compact Layout</label>
</CompactLayout>
```

```
Microsoft Windows [Version 10.0.26100.5074]
(c) Microsoft Corporation. All rights reserved.

C:\Users\hp\Downloads\Job-Application-Tracker-main>
```


File Edit Selection View Go Run Terminal Help
Job-Application-Tracker-main
EXPLORER
JOB-APPLICATION-TRACKER-MAIN
Job-Application-Tracker-main
force-app \ main \ default
classes
customMetadata
externalCredentials
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layouts
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namedCredentials
Jooble_REST_API.namedCredential-meta...
objects
Account
Activity
API_Key__mdt
Contact
Job__c
fields
Company__c.field-meta.xml
Id__c.field-meta.xml
Link__c.field-meta.xml
Location__c.field-meta.xml
Salary__c.field-meta.xml
Snippet__c.field-meta.xml
Source__c.field-meta.xml
Title__c.field-meta.xml
Type__c.field-meta.xml
Updated__c.field-meta.xml
Job__c.object-meta.xml
Job_Application__c
compactLayouts
OUTLINE
TIMELINE
EventTrigger.trigger-meta.xml
Job_Application_Compact_Layout.compactLayout-meta.xml
Company__c.field-meta.xml
Job-Application-Tracker-main > force-app > main > default > objects > Job__c > fields > Company__c.field-meta.xml
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
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Ln 13, Col 1 Spaces: 4 UTF-8 LF {} XML Finish Setup
Rainy days ahead
29°C
Search
ENG
IN
20:59
19-09-2025

```xml
<?xml version="1.0" encoding="UTF-8"?>
<CustomField xmlns="http://soap.sforce.com/2006/04/metadata">
    <fullName>Company__c</fullName>
    <description>A text field to store the job company</description>
    <externalId>false</externalId>
    <label>Company</label>
    <length>100</length>
    <required>false</required>
    <trackTrending>false</trackTrending>
    <type>Text</type>
    <unique>false</unique>
</CustomField>
```

```
Microsoft Windows [Version 10.0.26100.5074]
(c) Microsoft Corporation. All rights reserved.

C:\Users\hp\Downloads\Job-Application-Tracker-main>
```

1. Standard & Custom Objects

- In the images: You'll see boxes labeled with object names (like *Account, Contact* for Standard, and user-defined ones like *Job Application* for Custom).
- Theory:
    - Standard Objects = predefined by Salesforce.
    - Custom Objects = created by admins to match business processes.
    - They appear as rectangles in schema diagrams, each representing a table in the database.

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2. Fields

- In the images: Inside each object box, fields are listed (e.g., *Name, Email, Status*).
- Theory:
    - Fields = columns in a database table.
    - They define the type of information stored (Text, Number, Picklist, etc.).
    - Required fields are highlighted with a red asterisk in page layouts.

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3. Record Types

- In the images: Objects may be split to show different flows or form types.
- Theory:
    - Record Types allow the same object to behave differently.
    - Example: In *Job Application*, one record type might be *Internal Hiring* and another *External Hiring*.
    - Visually, you see them as different record forms connected to the same object.

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4. Page Layouts

- In the images: Screens showing how fields are arranged on a form.
- Theory:
  - Control placement of fields, sections, related lists, and actions.
  - Different layouts can be applied to profiles, so users see only what's relevant.

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5. Compact Layouts

- In the images: The highlight panel on the top of a record page or mobile preview.
- Theory:
  - Displays a few key fields (like *Name, Status, Phone*).
  - Useful for quick identification.

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6. Schema Builder

- In the images: A web of objects and fields linked with arrows.
- Theory:
  - Drag-and-drop tool for building and understanding data models.
  - Shows relationships (lookup, master-detail) between objects.
  - Helps admins design the database visually.

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7. Lookup vs Master-Detail vs Hierarchical Relationships

- In the images:
  - Lookup shown with a dashed arrow (loose link).
  - Master-Detail shown with a solid arrow (strong dependency).

    - Hierarchical shown on User object only.
- Theory:
    - Lookup = independent connection (Contact ↔ Account).
    - Master-Detail = parent-child (Opportunity ↔ Line Item).
    - Hierarchical = manager-subordinate among Users.

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8. Junction Objects

- In the images: A middle box connecting two objects with master-detail relationships.
- Theory:
    - Used for many-to-many relationships.
    - Example: *Student* ↔ *Enrollment* ↔ *Course*.
    - The junction object (Enrollment) connects both parents.

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9. External Objects

- In the images: Shown with a globe icon or cloud connection in schema diagrams.
- Theory:
    - Represent data stored outside Salesforce but accessed in real-time.