

# SF Dev Challenge (Scratch Org, Dev Hub, Source driven development)

## What you need

1. Trailhead playground
2. SF CLI
3. VS Code
4. VS Code Salesforce extension pack

**Upload your final results here:- Will be closed by Oct 16, 2021 6 P.M IST**

<https://forms.office.com/r/jXDpQupX8r>

## Points to remember:

1. Ensure you are uploading clear screen shots
2. Each screenshot from org should have org url clearly visible else your output will not be considered for evaluation and will be marked as incomplete in the final report

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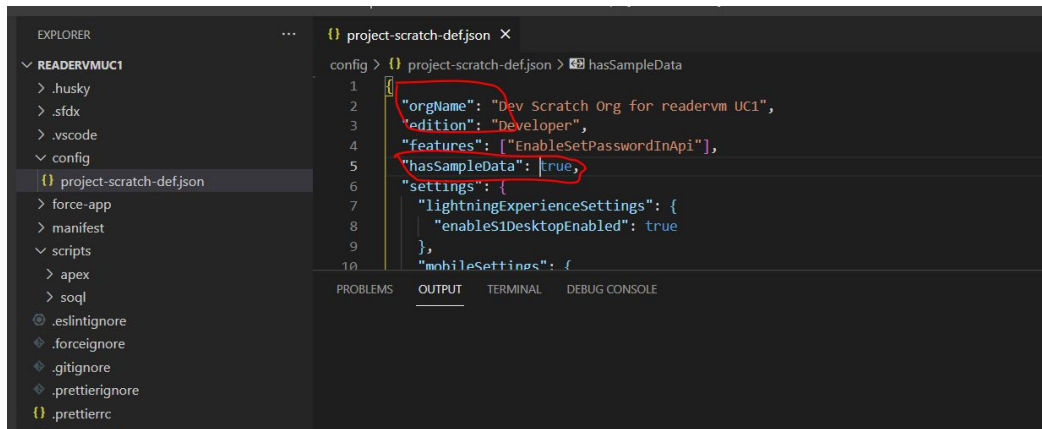
## Challenge

**UC #1:** Enable “Dev Hub” in your trailhead playground or developer edition

**UC #2 :** Use VS code or SF CLI auth command and **authorize your “Dev Hub” org**

**UC #3 :** Use VS code to **create a SF project** in a local folder. Modify project-scratch.json file and **provide org name as ‘New Scratch Org - <Your name>’**

*Optional: If you would like to have scratch org prepopulated with sample data use “hasSampleData” attribute*



The screenshot shows the Visual Studio Code interface with the Explorer on the left and the Editor on the right. The Explorer shows a file tree for a project named 'READERVMUC1'. The Editor displays the 'project-scratch-def.json' file. The JSON content is as follows:

```
config > {} project-scratch-def.json > hasSampleData
1  {
2    "orgName": "Dev Scratch Org for readervm UC1",
3    "edition": "Developer",
4    "features": ["EnableSetPasswordInApi"],
5    "hasSampleData": true,
6    "settings": {
7      "lightningExperienceSettings": {
8        "enableS1DesktopEnabled": true
9      },
10   "mobileSettings": {
```

Red circles highlight the following fields in the JSON:

- `"orgName": "Dev Scratch Org for readervm UC1",`
- `"hasSampleData": true,`

The bottom of the interface shows tabs for PROBLEMS, OUTPUT, TERMINAL, and DEBUG CONSOLE.

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## Challenge

**UC #4:** Use VS code or SF CLI auth command and **create a new scratch org**. Provide **alias name as 'scratchOrgV1'**

**UC# 5:** Use scratch org to create a new custom field of type **number** named '**Number of active contacts**' " on **Account** object

Use scratch org to create to create a new custom field of type **Checkbox** named '**Active Status** " on **Contact** object

**UC #6:** Use source pull to bring org changes made in the above step to local project codebase

**UC #7:** Use VScode to create an **apex class** and add an **invocable method** that

- calculates total number of active contacts associated to the account. Use Active Status flag to find active contacts
- Find the count and update account record custom field "**Number of active contacts**"

**Note:** Ensure invocable method works for single or multiple contacts

**UC #8:** Use source push to move apex class created above to the scratch org

**UC #9:** Use scratch org to create a process builder that runs on contact create and update

- Call the invocable method created above and test if the functionality works fine every time when a contact is added or updated