



Testing in DevOps

DOu – Certified Tester in DevOps (CTD)
Exercise Solutions

HO-3.3.2(HO-1)

Step 1 - Getting Sample Code(Feature Toggle)

- Launch URL https://github.com/umangsaltuniv/EM_FeatureToggle
- Click Fork at right top section
- “EM_FeatureToggle” repository will be added on your GitHub account

HO-3.3.2(HO-1)

Step 2 - Cloning Sample Code(Feature Toggle)

- After forking “EM_FeatureToggle” repository on GitHub Web, Click “Code” button
- Click “Open with GitHub Desktop”
- Click “Open GitHubDesktop”
- GitHub Desktop UI will be launched
- Browser **C:\DO-United\GitHubRepo** path under “Local path” section
- Click Clone
- GitHub Desktop UI will open the cloned repository and code will be downloaded on local machine under **C:\DO-United\GitHubRepo**

HO-3.3.2(HO-1)

Exercise - Perform a guided exercise to create several functional tests for feature toggles and watch how they can be executed on a given environment

- Implement feature toggles on system

HO-3.3.2(HO-1)

Exercise Solution - Perform a guided exercise to create several functional tests for feature toggles and watch how they can be executed on a given environment

- Launch below URL in browser:
<https://app.launchdarkly.com/signup>
- Do Sign Up
- Do Login if not already done
- Go to “Create a feature flag” section
- Enter feature flag name **login-button-color**
- Click CREATE FEATURE FLAG button

HO-3.3.2(HO-1)

Exercise Solution - Perform a guided exercise to create several functional tests for feature toggles and watch how they can be executed on a given environment

- Make sure Java & Production will be auto-filled under “Set up the application” section
- Scroll down the page and note down your SDK key
e.g., sdk-14f672d4-aadd-40cf-975a-9da50ed3b146
- Go to Feature flags section on “Darkly” website
- Verify feature flag is created and turned-off
- Click login-button-color link

Set up the application

Select your language:

Select your environment: ⓘ

 Java ▼

 Production ▼

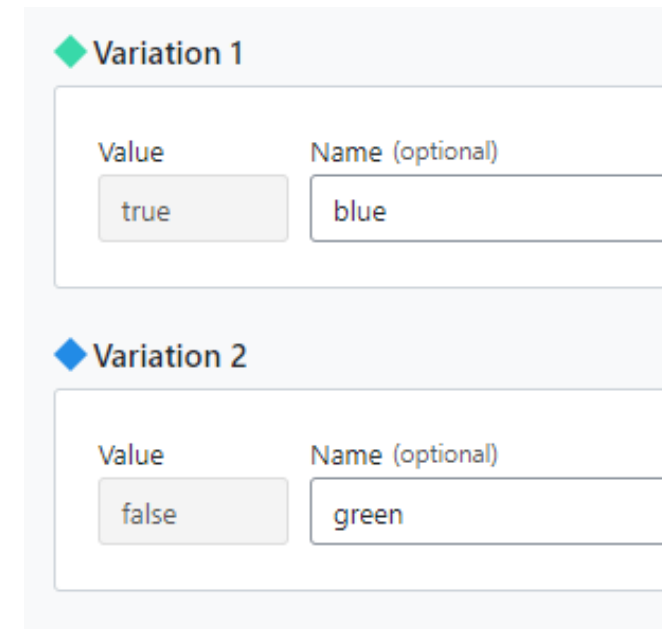
e. Then, in `main` create a new `LDClient` with your *environment-specific* SDK key:

```
public class App {  
    public static void main(String... args) throws IOException {  
        LDClient ldClient = new LDClient("sdk-14f672d4-aadd-40cf-975a-9da50ed3b146");  
    }  
}
```

HO-3.3.2(HO-1)

Exercise Solution - Perform a guided exercise to create several functional tests for feature toggles and watch how they can be executed on a given environment

- Go to Variations section
- Enter “blue” for true variation1
- Enter “green” for false variation2
- Click SAVE WITH COMMENT button



The screenshot displays a user interface for managing feature toggle variations. It contains two distinct sections, each with a header and a form. The first section, 'Variation 1', is marked with a green diamond icon. It includes a 'Value' dropdown menu set to 'true' and a 'Name (optional)' text input field containing 'blue'. The second section, 'Variation 2', is marked with a blue diamond icon. It features a 'Value' dropdown menu set to 'false' and a 'Name (optional)' text input field containing 'green'.

Variation	Value	Name (optional)
Variation 1	true	blue
Variation 2	false	green

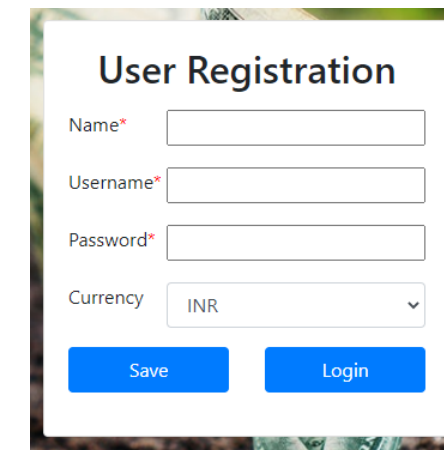
HO-3.3.2(HO-1)

Exercise Solution - Perform a guided exercise to create several functional tests for feature toggles and watch how they can be executed on a given environment

- Open **EM_FeatureToggle** project code in eclipse(that you cloned earlier in this slide-deck)
Note: Steps for Opening the code in eclipse are given in Comment section
- Go to **UserController.java** file under **src/main/java/com.expense.controller**
- Update the sdk key in code that you noted down from Darkly website
- Run the Expense Manager app by running **ExpenseApplication.java** file under **src/main/java/com.expense**
- Launch Expense Manager app on browser using <http://localhost:8088>
- Go to Expense Manager's Registration page
- Login button will be displayed in green color(as feature is turned-off on Darkly website)
- Now turn on the "login-button-color" feature from "Darkly" website by giving comment & environment(production)
- Now refresh the registration page, now Login button will be displayed in blue color(as feature is turned-on on Darkly website)



The image shows a 'User Registration' form. It has fields for Name*, Username*, Password*, and a Currency dropdown menu set to INR. At the bottom, there are two buttons: a blue 'Save' button and a green 'Login' button. The background of the form is a blurred image of a green banknote.



The image shows the same 'User Registration' form as above, but the 'Login' button is now blue, matching the 'Save' button. This indicates that the feature toggle 'login-button-color' has been turned on.