

In-Class Activity: Trello

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1 Introduction

Integration between GitHub and Trello can streamline the development process by creating a seamless flow of tasks or issues between the two platforms. This guide provides a step-by-step approach to set up this integration, starting with generating the necessary API credentials from Trello.

2 Generate a Trello API Key and Token

1. **Access Developer Portal:** Visit Trello's Developer Portal.
2. **Sign in:** If not already logged in, sign in with your Trello account.
3. **Get your API Key:**
 - Once signed in, look for an option or link to retrieve your API key.
 - Copy the displayed key and store it securely.
4. **Generate a Token:**
 - Find an option or link to generate a token.
 - Follow the prompts and grant all necessary permissions.
 - Copy the displayed token and save it securely.

3 Set Up a GitHub Action

1. Navigate to your desired GitHub repository.
2. Click on the **Actions** tab.
3. Click on **New workflow** or set up a workflow yourself.
4. Use a predefined template or set up a custom workflow.
5. In the workflow, use a script or community action to interact with the Trello API, employing the API key and token from earlier. Below is a basic example to create a Trello card when a new GitHub issue is opened:

```
name: Create Trello Card for New Issue
```

```
on:
```

```
  issues:
```

```
    types: [opened]
```

```
jobs:
```

```
  create-card:
```

```
    runs-on: ubuntu-latest
```

```
    steps:
```

```
    - name: Create Trello Card
```

```
      run: |
```

```
        curl "https://api.trello.com/1/cards" \
```

```
-X POST \  
-H "Content-Type: application/json" \  
-d '{  
  "name": "${{ github.event.issue.title }}",  
  "desc": "${{ github.event.issue.body }}",  
  "idList": "YOUR_TRELLO_LIST_ID",  
  "key": "YOUR_TRELLO_API_KEY",  
  "token": "YOUR_TRELLO_API_TOKEN"  
}'
```

Replace `YOUR_TRELLO_LIST_ID`, `YOUR_TRELLO_API_KEY`, and `YOUR_TRELLO_API_TOKEN` with appropriate values. Store the API key and token as secrets in your GitHub repository for security reasons.

4 Test the Integration

After setting everything up, create a new issue in your GitHub repository. If everything is configured correctly, a corresponding card should be created in your Trello board.

5 Conclusion

Integrating GitHub with Trello offers a powerful way to synchronize development tasks and issues, enhancing productivity and ensuring no task is overlooked.