

# Installation Manual

## 1. Set up Node.js

The Forge CLI requires a fully supported LTS release of Node.js installed; namely, versions 18.x or 20.x. Follow the Node.js setup instructions:

### 1. Windows

- a) Download the LTS installer from [Node.js](https://nodejs.org/en/download/)
- b) Install the package.

### 2. MacOS

- a) Install nvm.
- b) Select the latest Node.js LTS release by running the following in the terminal:

```
nvm install --lts  
nvm use --lts
```

- c) Check your Node.js version, run the following in the terminal:

```
node --version
```

## 2. Install the Forge CLI

Install the Forge CLI using npm. You'll install the CLI globally so that the commands can be run across your system. Install the Forge CLI globally by running:

```
npm install -g @forge/cli
```

Verify that the CLI is installed correctly by running:

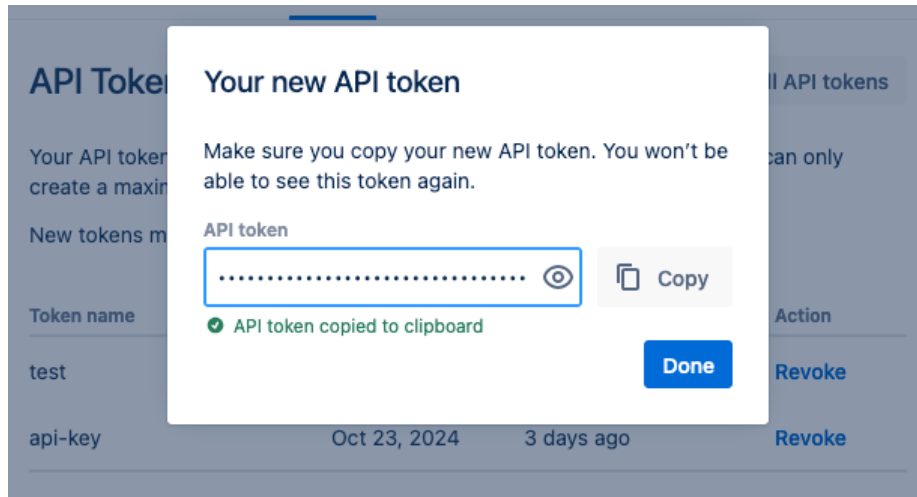
```
forge --version
```

You should see a version number reported in the terminal. If a version number is not shown, then the installation failed. Repeat step 1 and look for errors reported in the terminal. With the CLI installed, view the complete list of Forge commands by running `forge --help`.

## 3. Log in to Forge

Create or use an existing Atlassian API token to log in to the CLI. The CLI uses your token when running commands.

1. Go to <https://id.atlassian.com/manage/api-tokens>
2. Click Create API token.
3. Enter a label to describe your API token. For example, forge-api-token.
4. Click Create.
5. Click Copy to clipboard and close the dialog.



6. Log in to the Forge CLI to start using Forge commands by running:

```
forge login
```

7. Enter the email address associated with your Atlassian account. Enter your Atlassian API token you copied in step 5.
8. You will see a similar message confirming that you are logged in:

```
[~/my-projects]$ forge login
Warning: Your version of Forge CLI is out of date. We recommend you update to the latest
version to get the latest features and bug fixes.
Run npm install -g @forge/cli@latest to update from version 10.7.0 to 10.11.0.

Log in to your Atlassian account
Press Ctrl+C to cancel.

? Enter your email: cathleen.cru[redacted]

Next, enter your Atlassian API token. If you don't have a token, visit this URL to create
one:
https://id.atlassian.com/manage/api-tokens

? Enter your Atlassian API token: [hidden]

✓ Logged in as cathleen.cru[redacted]
```

## 4. Set up a cloud developer site

An Atlassian cloud developer site lets you install and test your app on Confluence and Jira products set up for you. If you don't have one yet, set it up now:

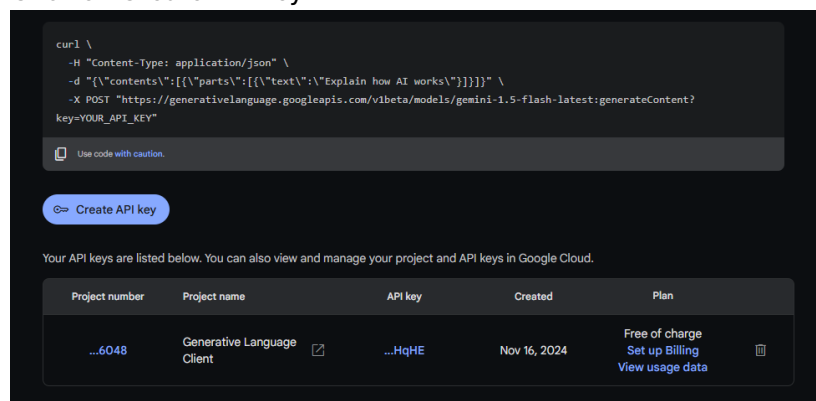
1. Go to <http://go.atlassian.com/cloud-dev> and create a site using the email address associated with your Atlassian account.
2. Once your site is ready, log in and complete the setup wizard.

You can install your app to multiple Atlassian sites. However, app data won't be shared between separate Atlassian sites, products, or Forge environments. Forge apps also cannot be viewed by anonymous users. When testing a Forge app, you should be logged in to your Atlassian cloud developer site.

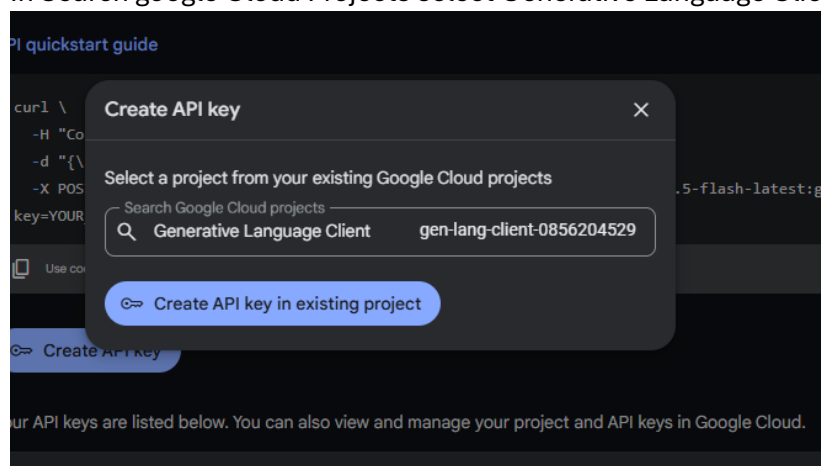
## 5. Set up Google Gemini API Key

To interact with Gemini API, we need to generate a key. For generating a key:

1. Go to <https://aistudio.google.com/apikey>
2. Click on Create API Key



3. You will get a popup to create a key
4. In Search google Cloud Projects select Generative Language Client



5. Click Create API key in existing project.
6. A new API key will be generated.
7. Copy the key and keep it safe.

## 6. Copy the app

The Zipped File provided as part of the Software Quality contains 3 folders:

1. quiz-app
2. quiz-context-menu
3. quiz-universal-textbox

Copy each of the folders in your local directory.

## 7. Install your app

To use your app, it must be installed onto an Atlassian site. The forge deploy command builds, compiles, and deploys your code; it'll also report any compilation errors. The forge install command then installs the deployed app onto an Atlassian site with the required API access.

1. Go inside the folder /quiz-app.
2. On the level of /quiz-app, run quiz-app, run:

```
npm install
```

3. Go into /quiz-app/static/hello-world, then run:

```
npm install
```

4. Run npm list -depth=0 to confirm dependencies were installed.

```
*[main] [~/my-projects/capstone-project-2024-t3-9900w17bhexaforce/Sahjad/quiz-app/static/hello-world]$ npm list --depth=0

confluence-macro-custom-ui@0.1.37 /Users/ccruz/my-projects/capstone-project-2024-t3-9900w17bhexaforce/Sahjad/quiz-app/static/hello-world
├── @atlaskit/css-reset@6.11.2
├── @forge/bridge@4.0.0
├── jspdf@2.5.2
├── react-dom@16.14.0
├── react-scripts@5.0.1
└── react@16.14.0

*[main] [~/my-projects/capstone-project-2024-t3-9900w17bhexaforce/Sahjad/quiz-app/static/hello-world]$ cd ../../
*[main] [~/my-projects/capstone-project-2024-t3-9900w17bhexaforce/Sahjad/quiz-app]$ npm list --depth=0

confluence-macro-custom-ui@1.0.52 /Users/ccruz/my-projects/capstone-project-2024-t3-9900w17bhexaforce/Sahjad/quiz-app
├── @forge/resolver@1.5.40
├── @google/generative-ai@0.21.0
├── axios@1.7.7
├── eslint-plugin-react-hooks@4.6.2
└── eslint@8.57.1
```

5. List of required node modules

```
npm install @forge/resolver@1.6.0
npm install axios@^1.7.7
```

```
npm install eslint-plugin-react-hooks@^4.6.0
npm install eslint@^8.56.0
npm install @atlaskit/css-reset@^6.6.2
npm install @forge/bridge@4.1.0
npm install jspdf@^2.5.2
npm install react-dom@^16
npm install react-scripts@^5.0.1
npm install react@^16
```

6. Inside static/hello-world, run this command:

```
npm run build
```

7. Copy the images folder from the /quiz-app level to /quiz-app/static/hello-world/build
8. Go back to Sahjad/quiz-app and run **forge register** and then name your app

```
forge register
```

```
[master] [~/my-projects/example/question-generator-app-i18n-for-custom-ui]$ forge register
Warning: Your version of Forge CLI is out of date. We recommend you update to the latest
version to get the latest features and bug fixes.
Run npm install -g @forge/cli@latest to update from version 10.7.0 to 10.10.0.

Registering the app to you.
Press Ctrl+C to cancel.

Name your app. The app name can include dashes, spaces, and underscores.
? Enter a name for your app: my-example-app
✓ Registering app...
  i Registering app
  i Creating environments
✓ Registered my-example-app
```

9. Navigate to the app's top-level directory (/quiz-app)
10. Set the Gemini API Key in the forge environment variable

**forge variables set --encrypt GEMINI\_API\_KEY my-value**

Note: Enter the Gemini API Key generated in Step 5 in place of my-value

11. Deploy your app by running:

```
forge deploy
```

12. Install your app in an Atlassian site (Example: 9900w17bhexaforce.atlassian.net) by running:

```
forge install
```

```
*[master] ~/my-projects/example/question-generator-app-118n-for-custom-ui]$ forge install

Warning: Your version of Forge CLI is out of date. We recommend you update to the latest
version to get the latest features and bug fixes.
Run npm install -g @forge/cli@latest to update from version 10.7.0 to 10.10.0.

Select the product your app uses.

? Select a product: Confluence

Enter your site. For example, your-domain.atlassian.net

? Enter the site URL: 9900w17bhexaforce.atlassian.net

Installing your app onto an Atlassian site.
Press Ctrl+C to cancel.

? Do you want to continue? Yes

✓ Install complete!

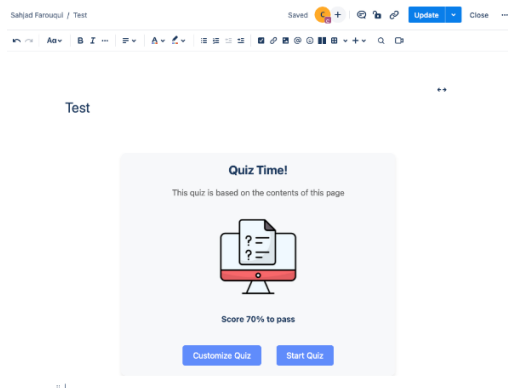
Your app in the development environment is now installed in Confluence on 9900w17bhexafor
ce.atlassian.net
```

## 8. View your app

With your app installed, it's time to see the app on a page.

1. Edit a Confluence page in your development site.
2. Type /quiz-app
3. Find the macro app by name in the menu that appears and select it.
4. Publish the page.

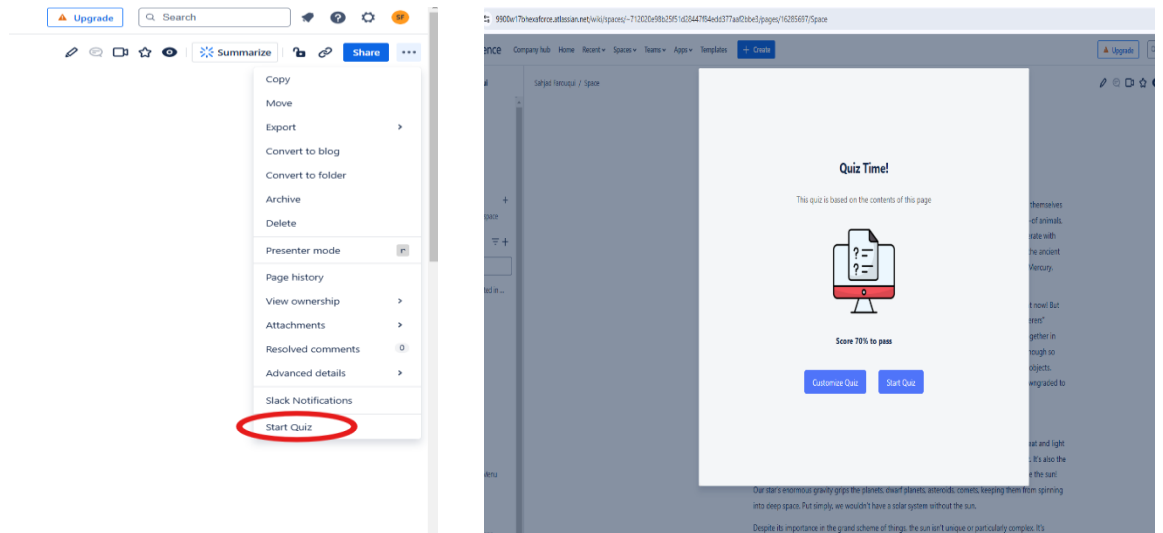
The quiz app is now installed onto the development site. The app should display on the page like the image below.



## 9. Install Remaining 2 Apps

Repeat step 7 for installing the remaining 2 apps (quiz-context-menu and quiz-universal-textbox).

1. Context-Menu App can be accessed from the page side menu as shown below:




2. Universal Textbox App can be accessed by creating a new page and typing /textbox-quiz-universal. It will be loaded like below:

#### Quiz - Textbox

Owned by [Sahilad Farooqui](#) • Last updated: Nov 14, 2024 • 1 min read • See how many people viewed this page

### Quiz Time!

This quiz is based on the contents of this page



Paste the link of the page you want to quiz on:

Score 70% to pass

[Customize Quiz](#)
[Start Quiz](#)

## 9. References

<https://developer.atlassian.com/platform/forge/getting-started/>  
<https://developer.atlassian.com/platform/forge/build-a-hello-world-app-in-confluence/>