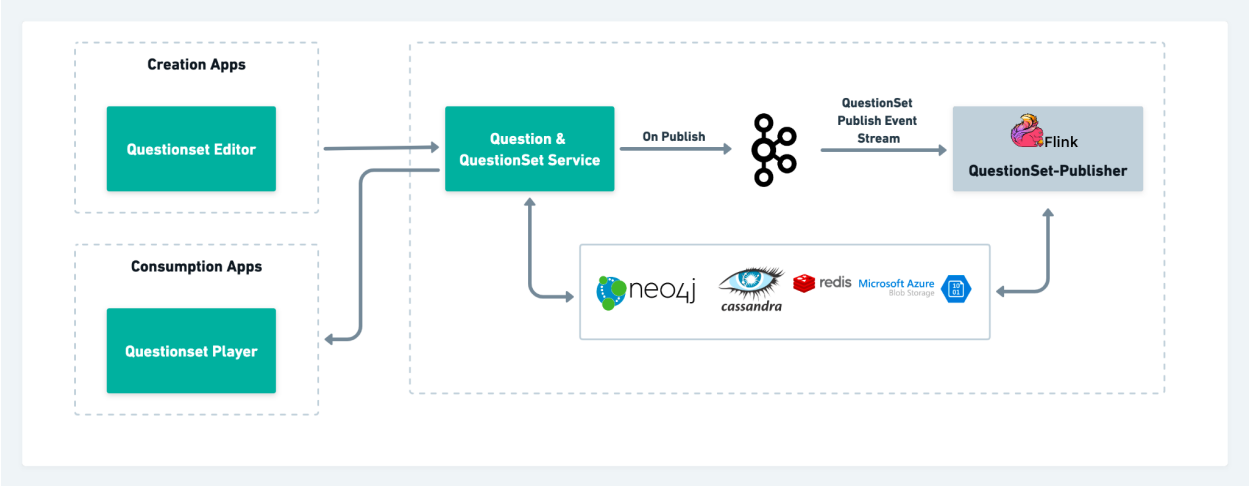
# Sunbird ED Developer Bootcamp 2023 (Sunbird inQuiry)

## Context:

This document helps in understanding the prerequisites and installation steps for one of the key components (**QuML Player**) of the inQuiry building block.

## Technical Architecture




## Prerequisite:

The following are required software packages to run QuML Player.

| Software/ Frameworks | Version | Validate Prerequisites |
|---|---|---|
| Node | v14 | *node -v* |
| Angular JS | v12 | *ng version* |
| GIT | - | |
| Postman | - | |

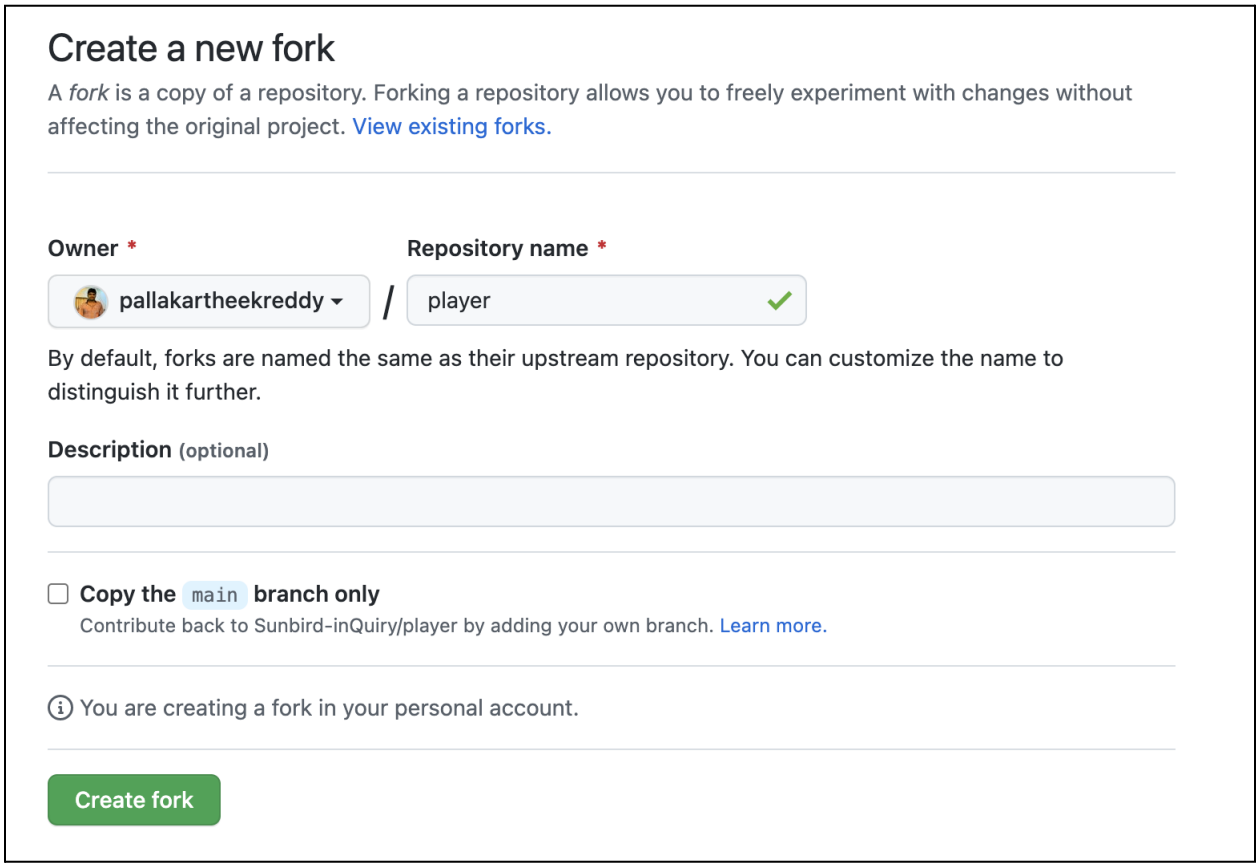
For more information on installing Node.js, see nodejs.org.

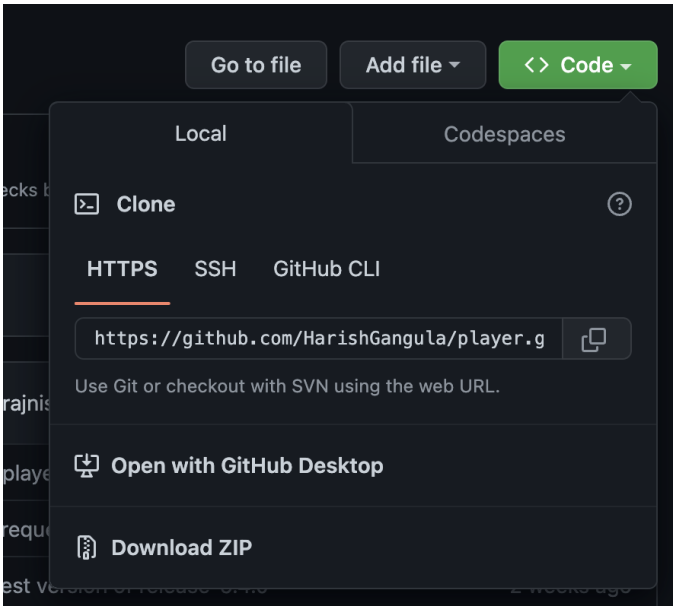
For installing a specific version of node, please consider using the nvm.

For more information on installing angular, see angular.io.cli.

## Set up Your Machine

Please fork the quml-player repository to manage the code changes and contribute them easily.






| | |
|---|---|
| **Repository** | https://github.com/Sunbird-inQuiry/player |

🗒️ **Note:** Please **uncheck** the “Copy the main branch only”. This will copy all the branches to the fork.

| | |
|---|---|
| **Clone Repository** | *git clone git@github.com:<github username>/player.git (ssh)*<br>***(or)***<br>*git clone https://github.com/<github username>/player.git (https)* |
| **Branch** | *release-5.4.0* |
| **Change folder** | *cd player* |
| **Update upstream repository** | *git remote add upstream git@github.com:Sunbird-inQuiry/player.git (ssh)*<br>*or*<br>*git remote add upstream https://github.com/Sunbird-inQuiry/player.git (https)* |
| **Change the branch** | *git checkout -b release-5.4.0* |
| **Validate your fork** | *git status*<br><br>It should show:<br>Your branch is up-to-date with release-5.4.0. |

## Build & Run

| | |
|---|---|
| **Change folder** | *cd player* |
| **Install dependencies** | *npm install* |
| **Change to QuML Lib** | *cd projects/quml-library* |
| **Install dependencies (for QuML Lib)** | *npm install* |
| **Move to root path** | *cd ../..* |
| **Build the project** | *npm run build* |
| **Run the service (in another terminal)** | *npm run serve* |
| **Validate** | *http://localhost:4200/* |

If the setup is successful, you will be able to see the below page.


🗒️ **Note:** if you want to play a different question set, change the question set ID in app.component.ts file by changing the **contentId** value in your local cloned repo.

## Run Unit Tests with code coverage:

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|---|---|
| **Change folder** | *cd player* |
| **Run Test cases** | *npm run test-lib-coverage* |

## Additional Links:

| | |
|---|---|
| **ENV** | https://drive.google.com/file/d/18r7tLDnOY1SWnQOkuGjhdiVCSPIuZcZk/view?usp=share_link |
| **Postman Collection** | https://drive.google.com/file/d/1Tt3V-BitEanfiWjyFmSo1OQ4nU0yzkjk/view?usp=share_link |
| **Sample Data** | https://docs.google.com/document/d/1X4AS_a5mM7ePmAVty_BQ53704RHYGLgp6Yf4gIlhpvk/edit?usp=sharing |

## Hands on exercise:

Currently, the player end page is showing the score as a number, we want to show only the final score as a float value.
I.e. instead of showing score as 2 we would like to show score as 2.00

# Problem Statements:

## Use case 1: IQ-298 QuML Player with configurable score and shuffle the Questions

The QuML player uses the Question Set and plays the questions. It generates the telemetry and computes the score. It also has the ability to shuffle the questions of the Question Set and to have a different experience for each play.

But, it uses a score as zero or “1” for all the questions. Please enhance the implementation to update the score to any defined value to compute the score.

## Use case 2: IQ-287 QuML Player – Question with audio as solution

The QuML Player has the capability to render solutions as only the video, text and image. Please enhance the implementation to support audio.

## Use case 3: IQ-295 Enhance QuML player to support multiples Question sets

The Question Set is a collection which allows multiple Questions and Question Sets in a nested graph structure.

The QuML player has a limitation to support only one Question Set to play. Please enhance the implementation to support nested structures having multiple Question Sets.