QUIZ APPLICATION

Product - **TALENCIA**
Subject – Documentation for the prototype application
Developed by - Ishan Lahoti
Application URL - https://github.com/inu1103/TalenciaQuizApplication.git

- A perfect questionnaire to check your talent

ABOUT

Talencia (pronounced as **"talenshia"**), is an amazing web application that enables a user to answer multiple choice quiz questions and help them to improve their general knowledge. It contains all type of questions from basic level to an advanced level, which is helpful to nourish mental ability to a better extent, including an interactive user interface.

If you are looking to enter the talent battle of general knowledge, run the application and answer questions now (http://localhost:4200/).

APPLICATION's FEATURES

➔ User Experience

1. It is a Front-end model, which has a completely new and modern design which serves as an interactive User Interface (UI).
2. Simple and Easy design with a smooth workflow as the user proceed with answering the questions.

➔ Technology Stack

1. The complete code is implemented using HTML, SCSS, and TypeScript.
2. Visual Studio Code is used as the Integrated Development Environment (IDE) purpose.
3. Framework Used :- Angular CLI v.13, Node.js v.14.18.1 .
4. Data Format used :- JSON.

➔ Features

1. With a Welcome Screen, user can see the title of the web application and the rules of the quiz.
2. On the same page, user must enter their name and start the quiz by clicking on “Enter the Battle” button.
3. The quiz sequentially contains MCQs, where the next question immediately appears by answering the current one.
4. As you will click an option, Right or Wrong will be indicated.
5. Each question must be answered within 60 seconds, as the timer is on top.
6. After the last answered question, result appears on the screen with a perfect submission analysis.

➔ Security

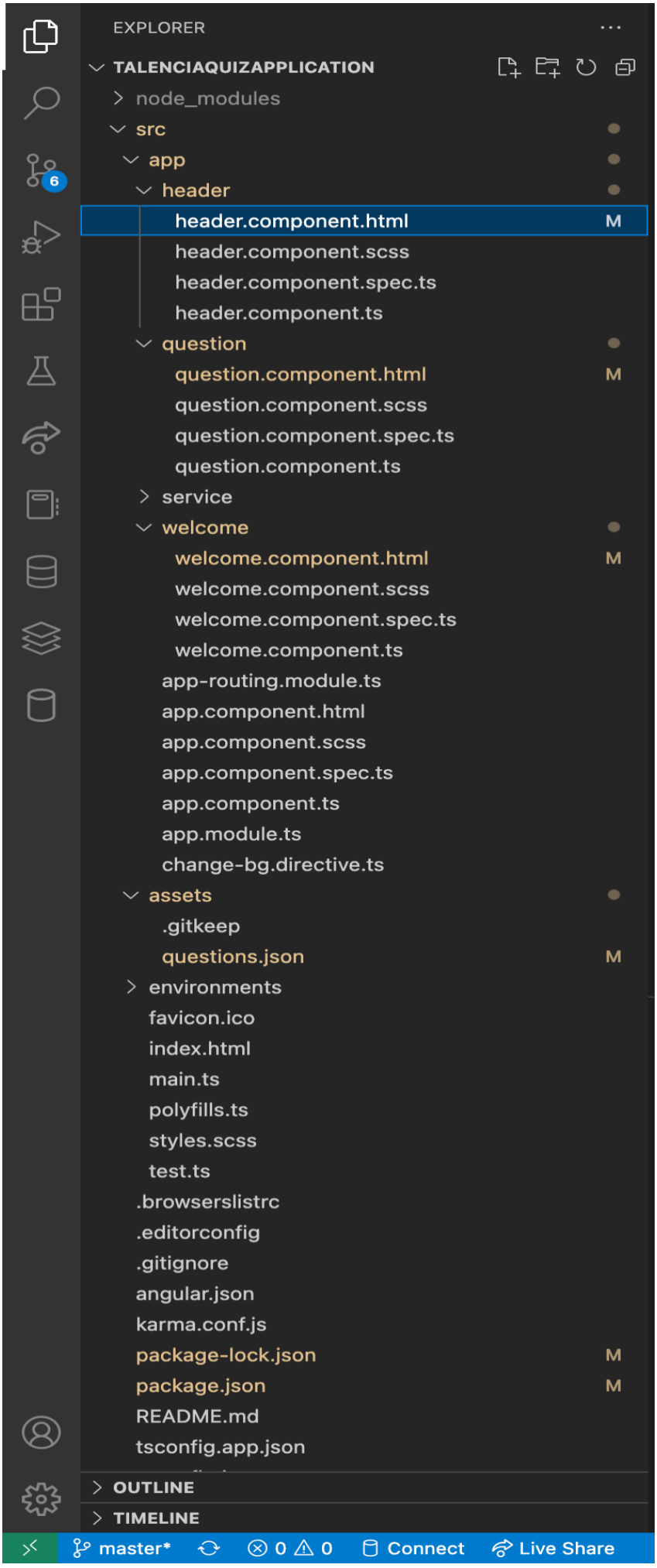
1. The web application is secured within our servers, which enables a user to keep their entered identity safe.
2. Important measures have been taken to avoid data leak, security breach, and system crash respectively.
3. We respect user’s privacy and thus provide a highly secured experience.

➔ Customer Satisfaction

1. Every user is a valuable entity.
2. It is an Open-Source application which is available free of cost to everyone.
3. Every user query is solved at highest priority, and valuable feedback is encouraged.

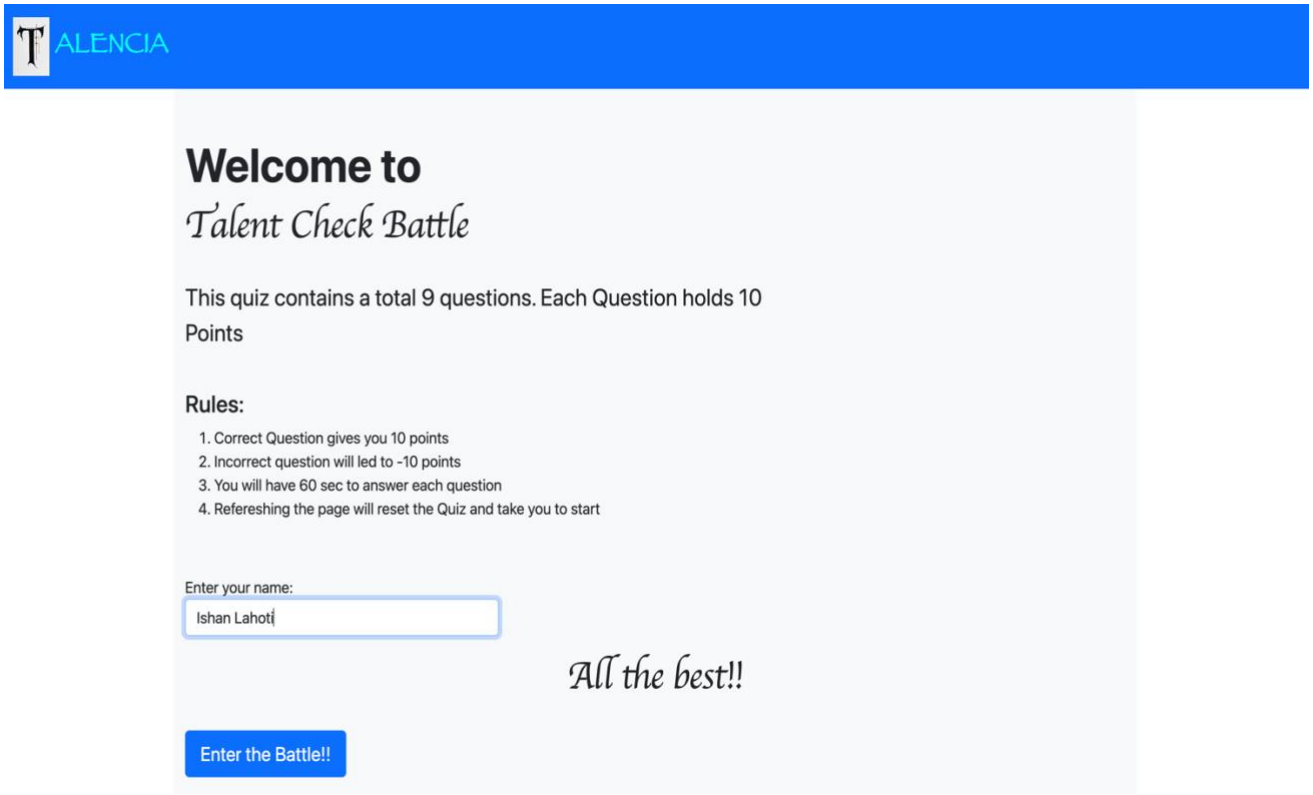
APPEARANCE

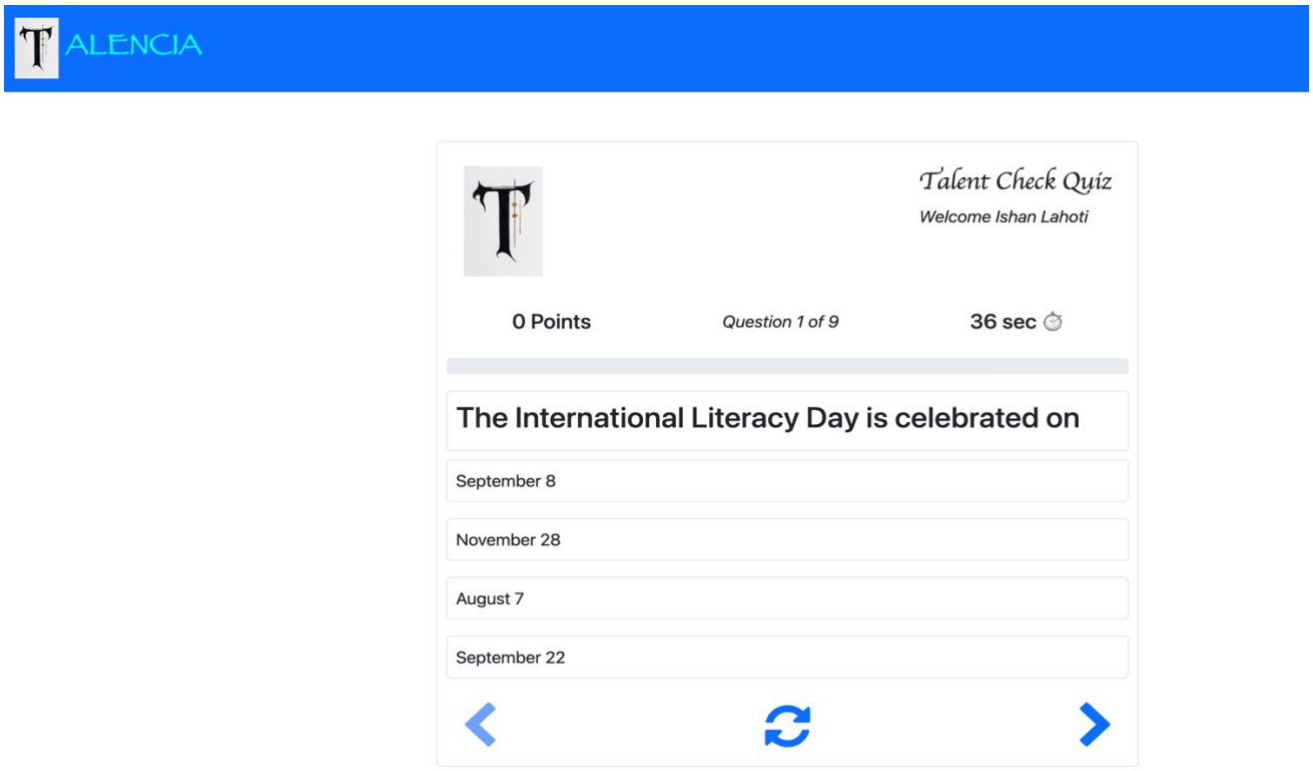
- The following image shows the different components created and each individual component serves its own functionality on each page. All these files run using the “node package manager”, for which “node modules” have been installed in the system.


EXPLORER
TALENCIAQUIZAPPLICATION
node_modules
src
app
header
header.component.html M
header.component.scss
header.component.spec.ts
header.component.ts
question
question.component.html M
question.component.scss
question.component.spec.ts
question.component.ts
service
welcome
welcome.component.html M
welcome.component.scss
welcome.component.spec.ts
welcome.component.ts
app-routing.module.ts
app.component.html
app.component.scss
app.component.spec.ts
app.component.ts
app.module.ts
change-bg.directive.ts
assets
.gitkeep
questions.json M
environments
favicon.ico
index.html
main.ts
polyfills.ts
styles.scss
test.ts
.browserslistrc
.editorconfig
.gitignore
angular.json
karma.conf.js
package-lock.json M
package.json M
README.md
tsconfig.app.json
OUTLINE
TIMELINE
master*
0 0
Connect
Live Share

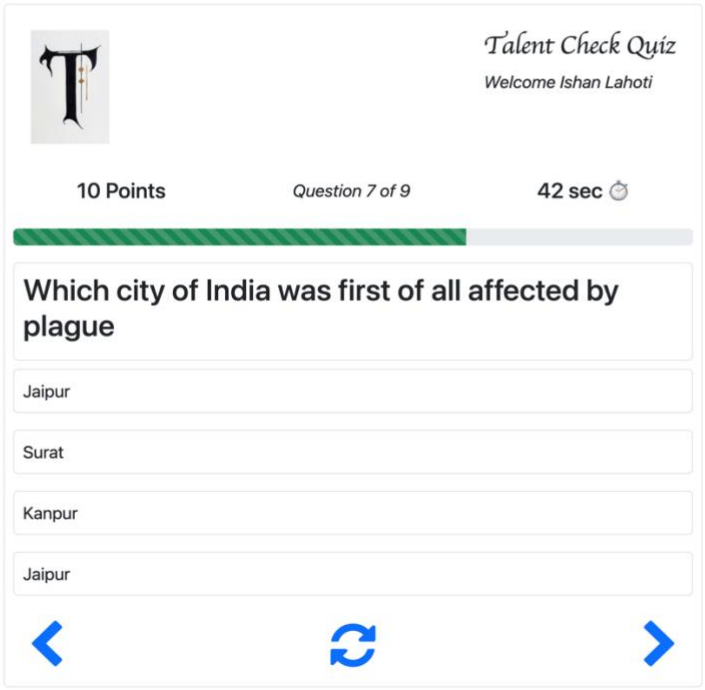
USER INTERACTIONS

- The following images will depict the user interactions and step-by-step processing of the application :-

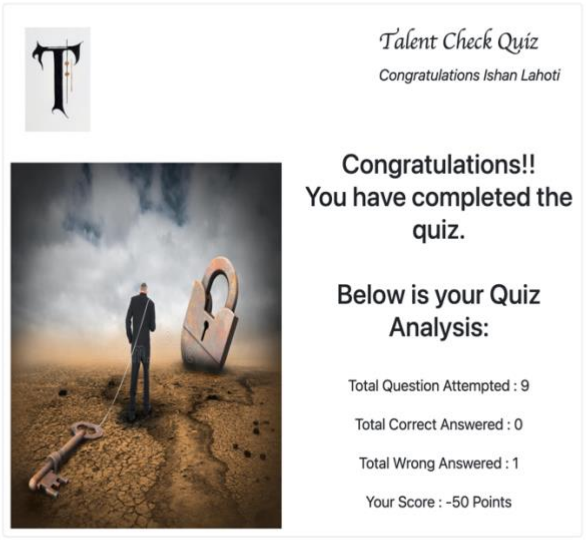




TALENCIA



TALENCIA



SPRINT PLANNING

- The spring planning for the prototype application for **Talencia** has been conducted in 15 days, which includes two sprints of 7 and 8 days respectively. A total number of 2 story points has been covered in total, which are divided in 1 and 1 in both the sprints. Each story has 4 and 2 tasks respectively.

1. Sprint 1 (7 Days/ 1 Story) :-

Task 1: Requirement Gathering – Decided to build a new innovative way to increase an individual's general knowledge.

Task 2: User Stories – Proceeded with an idea that a user can have MCQs type questions to answer on an online platform in the form of a web application.

Task 3: Choice of Tech Stack – Modern and Fast performing frameworks, i.e., Angular and Node.js. Scripting languages include HTML5, SCSS, and TypeScript. JSON format to handle data.

Task 4: Development Planning – we created an on-paper model including the number of pages to be designed, flowchart of the working model, types of questions to be included, and ease of providing a valuable interface.

2. Sprint 2 (8 Days/ 1 Story) :-

Task 1: Development Phase – Starting with coding for the **Welcome Screen** component, we move on through developing the **Question** component, then we designed the **App** component, and then we closed it with the **Result Screen** component.

Task 2: Testing and Deployment – Testing on prototype model has been performed in 3 iterations, namely unit testing, integration testing, and automation testing. All 3 testing phases passed successfully, and finally complete code deployed with appropriate documentation.