1. UAT Scope (In Scope – Out of Scope)			
UAT - In Scope	UAT - Out of Scope		
Implemented features User stories Strategy plan feasible features	Future features		

# 2. UAT Assumptions and Constraints

# **UAT Assumptions**

All bugs found had been solved

This is the final version of the product before deployment

#### **UAT Constraints**

Time frame: 2 days

#### Resources:

Human resources: 1 tester

• Hardware: Acer Aspire, Samsung Galaxy Tablet, Android mobile

• Operating systems: windows 10, android

• Browser tested: Firefox, Chrome, Edge

3. UAT Risks					
Description	Probability High Med Low	Impact High Med Low	Mitigation		
Inexperienced tester	High	High	Created a bug report form to help the tester to describe the issue properly		

# 4. UAT Team Roles & Responsibilities Name Roles Responsibilities Testing on: Ignazio Sotgiu Tester Tester Tester

Project Name: Trivia quiz Service Owner: Ignazio Sotgiu Project Manager: Ignazio Sotgiu	
	<ul> <li>Firefox</li> <li>Edge</li> <li>Acer Aspire 5740</li> <li>Android mobile</li> <li>Samsung Galaxy</li> </ul>

**User Acceptance Test** 

5. UAT Entry Criteria				
ID	Criteria			
5.1	The development of the features to implement is complete			
5.2	All reported bugs are fixed			
5.3	No high or medium issues are reported			
5.4	Hardware and software for testing are available and working correctly			

	UAT Requirements-Based Test Cases					
ID	Test Cases					
6.1	Dark / Light theme switch Mobile Device					
	As a user I want to be able to play the game with light or dark color As a user I want to have a button to switch to dark or light mode  Please visit <a href="https://ignaziosotgiu.github.io/trivia-quiz/">https://ignaziosotgiu.github.io/trivia-quiz/</a>					
	Ticase visit intps://ignaziosotgia.gitnab.io/trivia quizi					
	<ul> <li>Scroll on top of the page to see in the top right the theme mode switch displaying the sun</li> </ul>					
	Click on the icon displaying the sun					
	<ul> <li>See the white ball of the switch moving from left to right covering the sun and showing the moon and changing the switch color to a dark background. The colors of the web page change from dark theme to light theme:</li> </ul>					
	<ul> <li>Header/ navigation bar background will change with a white color with question Marks image</li> </ul>					
	The image in the background in the Welcome message section will change to a abstract white image					
	<ul> <li>The text color of the welcome message will change to black and a white overlay will prevent confusion with the background</li> <li>Start button will have a black border</li> </ul>					
	Footer background color will change to black					
	Click on the moon icon to change mode back to the dark theme					
	Click on the icon displaying the moon					
	See the white ball of the switch moving right to left covering the moon and					
	showing the sun and chancing the switch color to a light blue background The colors of the web page change from light theme to dark theme:					
İ	Header/ navigation bar background will change with a dark color					

with question marks image

- ➤ The image in the background in the Welcome message section will change to a abstract dark image
- The text color of the welcome message will change to golden yellow (#eca54c)
- ➤ Footer background color will change to brown color (#713200)

## **Expected result:**

- The user can see the switch on the top of the page displaying the sun
- When the user clicks the switch the page will turn into light mode
- The user can see the switch on the top of the page displaying the moon
- When the user clicks the switch the page will turn into dark mode

#### 6.2 Dark / Light theme switch Tablet and Desktop Devices

As a user I want to be able to play the game with light or dark color As a user I want to have a button to switch to dark or light mode

Please visit https://ignaziosotgiu.github.io/trivia-quiz/

- See on the navigation bar placed in the right the theme mode switch displaying the sun
- Click on the icon displaying the sun
- See the white ball of the switch moving from left to right covering the sun and showing the moon and changing switch color to a dark background The colors of the web page change from dark theme to light theme:
  - Header background will change with a white color with question marks image
  - The navigation bar will change to lighter color (#ff933d)
  - ➤ The navigation links will change to black color
  - The image in the background in the Welcome message section will change to an abstract white image
  - The text color of the welcome message will change to black and a white overlay will prevent confusion with the background
  - > Start button will have a black border
  - Footer background color will change to black
- To change mode back to the dark theme
- Click on the icon displaying the moon
- See the white ball of the switch moving right to left covering the moon and showing the sun and chancing the switch color to a light blue background The colors of the web page change from light theme to dark theme:
  - Header background will change with a dark color with question marks image

- > The navigation bar will change to brown color (#713200)
- > The navigation links will change to white color
- ➤ The image in the background in the Welcome message section will change to a abstract dark image
- ➤ The text color of the welcome message will change to golden yellow (#eca54c)
- Footer background color will change to brown color (#713200)

#### **Expected result:**

- The user can see the switch on the top of the page displaying the sun
- When the user clicks the switch the page will turn into light mode
- The user can see the switch on the top of the page displaying the moon
- When the user clicks the switch the page will turn into dark mode

## 6.3 Navigation Menu Mobile Device

As a user I can see at the top right of the page a collapsed navigation icon As a user I can click the navigation icon and expand the navigation menu As a user I can see the 3 navigation links

Please visit https://ignaziosotgiu.github.io/trivia-quiz/

- Scroll up to the top of the page to see on the right the collapsed navigation icon
- Click on the icon
- The navigation menu will expand on the right of the page below the collapsed navigation icon showing the user the 3 navigation links:
  - Register for Newsletter
  - Contact Us
  - Instructions
- Clicking on any link will open the linked modal
- Clicking in the modal, outside of the forms/instructions text will close the modal bringing the user back to the homepage without refreshing the page

#### **Expected Result:**

- The user can see and recognize the navigation icon
- The menu expands and collapse by clicking the navigation icon
- The user can see the 3 links available in the menu

## 6.4 Navigation Menu Tablet and desktop Devices

As a user I want to find the navigation bar below the header where I can find the

#### website navigation links

Please visit https://ignaziosotgiu.github.io/trivia-quiz/

- Scroll up to see below the header the navigation bar
- On the navigation bar will find 3 navigation links:
  - Register for Newsletter
  - Contact Us
  - Instructions
- Clicking on any link will open the linked modal
- Clicking in the modal, outside of the forms/instructions text will close the modal bringing the user back to the homepage without refreshing the page

## **Expected Result:**

- The user can see the navigation bar
- The user can see the 3 links available in the menu
- The user will be able to access the modals linked to the navigation bar links

# 6.5 Logo Mobile Tablet and Desktop Devices

As a user I can see the logo on the top center of the page displaying the company name

Please visit https://ignaziosotgiu.github.io/trivia-quiz/

- Scroll up at the top of the page to see the round logo with "Trivia Quiz" displayed in the center
- Clicking the logo will refresh the page
- On Tablet and Desktop screens there is a slide effect added when the page is refreshed. Clicking the logo the background will slide from the left and the company name will slide from the right meeting in the center of the header will form the company logo

## **Expected Result:**

- The user can see the logo on the top of the page
- When the logo is clicked will refresh the page
- On Tablet and Desktop screens when the logo is clicked the slide effect appears

#### 6.6 Welcome Message and Start Button Mobile Tablet and Desktop Devices

As a user I can see the welcome message

As a user I can see below the message the green call to action (CTA) "Start" button

As a user I select "Start" to start the game

Please visit https://ignaziosotgiu.github.io/trivia-quiz/

- The user can see at the center of the page the welcome message
- The user can see below the welcome message the (CTA) "Start" button
- Click the "Start" Button
- "Please select a Category" modal is displayed

#### Expected Result:

- The user can see the welcome message at the center of the page
- The user can see below the welcome message the green "Start" button
- When the user clicks "Start" the Please select a Category screen appears

#### 6.7 Category Buttons Mobile Tablet and Desktop Devices

As a user I want to see the Category Button choice in the screen As a user I want to select each Category Button As a user I want the selected button to turn green to confirm the selection

Please visit <a href="https://ignaziosotgiu.github.io/trivia-quiz/">https://ignaziosotgiu.github.io/trivia-quiz/</a>

- Click the "Start" button in the center of the homepage
- "Please select a Category" modal is displayed:
  - > 12 different buttons are displayed
  - > Each Button contain a Category name
  - Each Button contain a purple icon depending of the Category
- Click outside the icons section to close the modal and go back to the homepage without choosing the Category
- Click the "Start" button in the center of the homepage
- "Please select a Category" modal is displayed
- Follow test or each of the Category Buttons:
  - Click on "Start" button
  - Select Category
  - Button selected will change color to green
  - Please select Difficulty Level is displayed Click outside of the Difficulty Level choice window to go back to the homepage

#### Expected Result:

The user can see the Category choice after clicks "Start"

- The user can see 12 Category Buttons with icons and names
- The user can select any of the Category Buttons
- The selected Category Button change color to green
- The Difficulty Level choice appears after the Category Button has been selected

#### 6.8 Difficulty Level Buttons Mobile Tablet and Desktop Devices

As a user I want to see the Difficulty Level choice in the screen As a user I want to select each Difficulty Level button As a user I want the buttons to have colors to help the selection As a user I want the questions to start after the selection is made

Please visit https://ignaziosotgiu.github.io/trivia-quiz/

Repeat the following instruction for each difficulty button

- Click on the "Start" button at the center of the homepage
- "Please select a Category" modal is displayed
- Click on any Category Button and the Select Difficulty Level modal is displayed in the center if the screen
- The user can see 3 buttons:
  - Green button for easy level and 10 questions
  - Orange button for medium level and 13 questions
  - Red button for hard level and 15 questions
- Each button contains a text and an icon
- Click on the easy/medium/hard level button
- Difficulty level modal will close
- A message appears in the center of the screen "Ready to start... Good Luck and Enjoy"
- A 3 to 0 countdown appear in the screen below the message
- After countdown is finished the first question is displayed in place of the message and the countdown
- Answer all the questions:
  - > Easy level 10 questions
  - Medium level 13 questions
  - Hard level 15 questions
- The end of the game page appears after the last question is answered
- Click on the Trivia Quiz logo to refresh the page

#### **Expected Result:**

 The user can see the Difficulty Level Buttons after the Category has been selected

- The Difficulty Level Buttons have different color and icons to help the user on the choice
- The user can select any of the difficulty level buttons
- After the selection the difficulty level buttons are replaced by a new message and 3 to 0 countdown sequence
- After the countdown sequence the first question of the game is displayed

## 6.9 Question Display and Answer Buttons Mobile Tablet and Desktop Devices

As a user I want to see the question in the middle of the screen As a user I want the answers button displayed below the questions As a user I want the true / false questions to have true / false buttons As a user I want the multiple choice questions to have 4 answer buttons displayed

As a user I want the button to change color after my selection:

- Green for correct answer
- Red for incorrect answer.

As a user I want to see a message after my answer:

- Success in case of correct answer
- Error in case of incorrect answer

As a user I want for the multiple choice incorrect answer the message to display which was the correct answer

As a user I want to see the number of my correct and incorrect answers while I progress through the game

Please visit https://ignaziosotgiu.github.io/trivia-quiz/

- Select "Start" button
- Select any Category
- Select any Difficulty Level
- After the countdown the question is displayed in the center of the screen
- If is a True / False question the user sees 2 buttons below the question:
  - Green button for True
  - Red button for False
- Select true button:
  - If answer is correct
    - Green button stay green
    - Success message is displayed
    - Add 1 to correct answer
    - Display the next question
  - ➤ If answer is incorrect
    - Green button change to red
    - Incorrect message is displayed
    - Add 1 to incorrect answers
    - Display the next question
- Select False button:

- If answer is correct
  - Red button change to green
  - Correct message is displayed
  - Add 1 to correct answers
  - Display the next question
- If answer is incorrect
  - Red button stay red
  - Incorrect message is displayed
  - Add 1 to incorrect answers
  - Display the next question
- If is a multiple choice question the user sees 4 light blue buttons below the question
- Select one of the buttons:
  - ➤ If answer is correct
    - Button change to green
    - Success message is displayed
    - Add 1 to correct answer
    - Display the next question
  - ➤ If answer is incorrect
    - Button change to red
    - Incorrect message is displayed
    - Incorrect message text displays the correct answer
    - Add 1 to incorrect answers
    - Display the next question

#### **Expected result:**

- The user sees the question in the middle of the screen
- The user sees the answer button displayed below the question
- The user sees True / False answer button for True / False question
- The user sees 4 answer buttons for multiple choice question
- After the selection the button change color to green if the answer is correct or red if the answer is incorrect
- After the answer button is selected a correct message is displayed on screen if the answer is correct incorrect message if the answer is incorrect
- For multiple choice incorrect answer the incorrect message displays the correct answer
- At the bottom of the page the count of correct and incorrect answers is updated correctly after every answer
- 6.9 End of the Game page Sharing result links Reset and Continue Buttons Mobile Tablet and Desktop Devices

As a user at the end of the game I want to know the number of correct answers and incorrect answers

As a user I want to know what is the percentage of correct answers

As a user I want to see a comment about my performance

As a user I want to know if I played more games the total amount of questions I answered, how many I have answered correctly and how many incorrectly

As a user I want to know my overall percentage of correct answers

As a user I want to be able to share my result on Twitter

As a user I want to be able to share my result on Facebook

As a user I want to continue the game without resetting my score

As a user I want the Continue Button to be green

As a user I want the Reset Button to be red for warning

As a user I want to be able to reset the counters and start a new game

#### Please visit https://ignaziosotgiu.github.io/trivia-guiz/

- Click "Start" button
- Select a category
- Select a difficulty level
- Wait for the countdown to reach 0 and display the question
- Answer the questions
- After answering the last question the end of the game page will be displayed
- The end of the game message is displayed at the center of the screen
- The message contains:
  - Comment about the performance
  - > Total correct answers for the last session
  - > Total incorrect answers for the last session
  - Percentage of correct answer for the last session
  - Overall number of questions answered
  - Overall number of correct answers
  - Overall number of incorrect answers
  - Overall percentage of correct answers
- Below the end of the game message there is the share button
- The share button is dropdown menu
- Select the share button
- The dropdown menu shows 2 links to social media platforms:
  - > Facebook
  - > Twitter
- Select Facebook
- Facebook sharing page opens in a new tab
- Select Twitter
- Twitter sharing page opens in a new tab
- Below the share button there are 2 more buttons:
  - > The green Button Continue
  - > The red Button Reset
- If click on Continue
- A new message is displayed showing the number of session the user is

about to begin

- Below the message the green "Start" button is displayed
- If click on Reset refresh the page resetting the counters bringing the user back to the home screen

#### **Expected Result:**

- At the end of the game a message is displayed. It contains:
  - > A comment about the user performance
  - > The number of correct answers
  - > The number of incorrect answers
  - The percentage of correct answers
  - > The overall number of questions answered
  - The overall number of correct answers
  - The overall number of incorrect answers
  - The overall percentage of correct answers
- Below the message there is the Share button
- When clicked opens a dropdown menu with links to share result on Facebook and Twitter
- Facebook link opens a new tab
- Twitter link opens a new tab
- Below the Share button there are 2 buttons:
  - Green button Continue to continue the game
  - Red button Reset to reset the counters and go back to the homepage
- Click on continue the new message will be displayed containing the number of the session the user is about to begin
- Below the message the green "Start" button is displayed
- Click to select the category

#### 6.10 | Registration for Newsletter Mobile Tablet and Desktop Devices

As a user I want to register for newsletter

As a user I want to receive an email to confirm my registration

Please visit https://ignaziosotgiu.github.io/trivia-quiz/

- Find the link Register for Newsletter in the navigation bar on desktop and tablet
- Find the link Register for Newsletter in the dropdown menu after clicking the toggle icon on the top right of the screen on mobile device
- Click Register for Newsletter link
- The screen displays a modal with a registration form
- Click on the X icon on the top right of the form
- The registration modal closes
- Find the link Register for Newsletter in the navigation bar on desktop and

#### tablet

- Find the link Register for Newsletter in the dropdown menu after clicking the toggle icon on the top right of the screen on mobile device
- Click Register for Newsletter link
- The screen displays a modal with a registration form
- On desktop and tablet screen a subscribe image is displayed on the left part of the screen
- Fill the form name field
- Click Submit
- A error message asks the user to enter a valid email address
- Click on the screen to close the message
- Enter an invalid email address in the form
- Click Submit
- · A error message asks the user to enter a valid email address
- Click on the screen to close the message
- Enter a valid email address in the form
- Click Submit
- A error message asks the user to tick the newsletter box before submitting
- Click on the page to close the message
- Fill the form fields:
  - Name
  - Email Address
  - Tick the box to agree to receive newsletter
- Select the Submit button
- A confirmation message will display that the email has been sent
- Check the user email inbox to see the email to confirm the subscription was successful
- · A error message will display if the email was not sent

# **Expected Result:**

- Register for Newsletter link is present in the navigation bar and in the mobile dropdown menu
- The desktop and tablet form contains a subscribe image on the left side of the form
- The user is able to register for newsletter
- The user has to fill all the fields in the form
- The user has to tick the box to agree to receive newsletter
- The user has to fill the form with a valid email address to successfully submit
- The user receive an email to confirm the registration

#### 6.11 | Contact Us Mobile Tablet and Desktop Devices

As a user I want to be able to give feedback

As a user I want to be able to contact the company

## Please visit <a href="https://ignaziosotgiu.github.io/trivia-quiz/">https://ignaziosotgiu.github.io/trivia-quiz/</a>

- Find the link Contact Us in the navigation bar on desktop and tablet
- Find the link Contact Us in the dropdown menu after clicking the toggle icon on the top right of the screen on mobile device
- Click Contact Us link
- The screen displays a modal with a contact form
- Click on the X icon on the top right of the form
- The contact modal closes
- Find the link Contact Us in the navigation bar on desktop and tablet
- Find the link Contact Us in the dropdown menu after clicking the toggle icon on the top right of the screen on mobile device
- Click Contact Us link
- The screen displays a modal with a contact form
- On desktop and tablet screen a mail image is displayed on the left part of the form
- Fill the form name field
- Click Submit
- A error message asks the user to enter a valid email address
- Click on the screen to close the message
- Enter an invalid email address in the form
- Click Submit
- A error message asks the user to enter a valid email address
- Click on the screen to close the message
- Enter a valid email address in the form
- Click Submit
- A error message asks the user to write a message before submitting
- Click on the page to close the message
- Fill the form fields:
  - Name
  - Email Address
  - > Write a message
- Select the Submit button
- A confirmation message will display that the email has been sent
- A error message will display if the email was not sent

#### **Expected Result:**

- Contact Us link is present in the navigation bar and in the mobile dropdown menu
- The desktop and tablet form contains a mail image on the left side of the form
- The user is able to contact the company
- The user has to fill all the fields in the form

 The user has to fill the form with a valid email address to successfully submit

#### 6.12 | Instruction Mobile Tablet and Desktop Devices

As a user I want to check the game instructions As a user I want to know how to play the game

Please visit https://ignaziosotgiu.github.io/trivia-guiz/

- Find the instructions link in the navigation bar in the tablet and desktop
- Find the instructions link in the dropdown menu clicking the toggle icon on the top right of the page on mobile devices
- Click the Instructions link
- A modal appear at the center of the page
- Click on the X icon on the top right of the page
- The instructions modal closes
- Find the instructions link in the navigation bar in the tablet and desktop
- Find the instructions link in the dropdown menu clicking the toggle icon on the top right of the page on mobile devices
- Click the Instructions link
- A modal appear at the center of the page
- The modal contains the instructions of the game
- At the bottom of the instruction there is a button
- The button is red and the text of the button says "exit"
- Click on the button to close the modal
- Click on the instructions link
- The instructions modal appear
- Click on the outside of the message window to close the modal
- The modal disappear

#### Expected Result:

- The user can check the game instructions by clicking on the link Instructions on the navigation bar in a tablet or desktop devices
- The user can check the game instructions by clicking on the link Instructions on the dropdown menu after clicking the toggle menu icon on the top right of the screen in mobile devices
- The user can read the instructions and get information about the game
- The user can click the "exit" button to exit the instructions and close the modal

#### 6.13 | Footer Mobile Tablet and Desktop Devices

The user wants to go to trivia game social media platforms
The user expect to find links to social media platforms at the bottom of the page

# Please visit https://ignaziosotgiu.github.io/trivia-quiz/

- Scroll down at the bottom of the page
- In the footer there are 3 icons
  - > Facebook
  - > Twitter
  - > Instagram
- Click on the Facebook icon
- A new tab opens Facebook website
- Click on the Twitter icon
- A new tab opens Twitter website
- Click on the Instagram icon
- A new tab opens Instagram website

# **Expected Result:**

- The user will find the links to social media platforms in the footer at the bottom of the page
- Each links opens the social media website in a new tab

7. UA	T Test Results			
ID	Test Cases	Pass/Fail	Tested By	Date Tested
6.1	Dark / Light theme switch - Mobile Device	Pass	Ignazio Sotgiu	04/04/2021
6.2	Dark / Light theme switch – Tablet and Desktop Devices	Pass	Ignazio Sotgiu	04/04/2021
6.3	Navigation Menu Mobile Device	Pass	Ignazio Sotgiu	04/04/2021
6.4	Navigation Menu Tablet and Desktop Devices	Pass	Ignazio Sotgiu	04/04/2021
6.5	Logo Mobile Tablet and Desktop Devices	Pass	Ignazio Sotgiu	04/04/2021
6.6	Welcome Message and Start Button Mobile Tablet and Desktop Devices	Pass	Ignazio Sotgiu	04/04/2021
6.7	Category buttons Mobile Tablet and Desktop Devices	Pass	Ignazio Sotgiu	04/04/2021
6.8	Difficulty Level buttons Mobile Tablet and Desktop Devices	Pass	Ignazio Sotgiu	04/04/2021

6.9	Question Display and Answer Buttons Mobile Tablet and Desktop Devices	Pass	Ignazio Sotgiu	04/04/2021
6.10	Registration for Newsletter Mobile Tablet and Desktop Devices	Pass	Ignazio Sotgiu	04/04/2021
6.11	Contact Us Mobile Tablet and Desktop Devices	Pass	Ignazio Sotgiu	04/04/2021
6.12	Instruction Mobile Tablet and Desktop Devices	Pass	Ignazio Sotgiu	04/04/2021
6.13	Footer Mobile Tablet and Desktop Devices	Pass	Ignazio Sotgiu	04/04/2021

8. Document Signatures				
Role	Name	Signature	Date	
Service Owner	Ignazio Sotgiu		04/04/2021	
Project Manager	Ignazio Sotgiu		04/04/2021	