Masterpiece Project Plan – Batch 2

PR, CSR & Corporate Communication

Orange Coding Academy

Final project overview

Certification

Each trainee must complete a final project to get the certification.

Application

Should be a web application or web mobile application.

Competencies

The project should include the competencies that the trainee learned during the cohort.

Work time

The trainee should work on the project in parallel with the training period.

Project subject

The trainee can select a project or many projects to present from the old project done during the cohort.

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Timeline


15 - 19 April 2021
Submit the technical Documentations
29 April 2021
Deadline for submission of projects
2 May 2021
Final project presentation

Master Project Evaluation Plan

Date : Sun May 2nd , 2021

Location: Coding Academy

Duration : May 2nd, 2021 - May 4th, 2021 (3 Days)

Number of students per Day : 20

Jury Setup and Representatives

Number	Jury member	Location
1	Simplon Representative	Online
1	Orange Expert	On-site
4	Coding Academy Trainer	On-site

Committee Members Setup

Committee A


Orange Expert


Simplon Representative


Lead Trainer

Committee B


Orange Expert


Simplon Representative


Lead Trainer

Committee C


Orange Expert


Simplon Representative


Lead Trainer

Committee D


Orange Expert


Simplon Representative


Lead Trainer

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Technical competences & details of each :

1 Create mock-ups for an application

- The mock-up takes into account the functional features described in the uses cases or user scenarios.
- The mock-up conforms to the user experience and the target device.
- The mock-up follows the principles of user interface security the visible portion of the mock-up content is drafted in English, in a manner suitable for the reader and without mistakes.

2 Create static and adaptive web user interfaces

- The interface conforms to the application mock-up structural best practice is followed, including for the mobile web.
- The web pages adapt to the screen size.
- The website follows the rules of natural SEO the search procedure enables them to solve a technical problem or implement a new feature.
- The technical documentation relating to the associated technologies, drafted in English.

3 Develop a dynamic web user interface

- The web pages conform to the user experience, including for the mobile experience.
- The application architecture follows web application development and security best practice.
- The web application is optimized for mobile devices.
- The search procedure enables them to solve a technical problem or implement a new feature.
- The watch over known vulnerabilities enables them to identify potential flaws.
- The technical documentation relating to the associated technologies, drafted in English, is understood (without misinterpretations, etc.).

4 Create a user interface with a content management or e-commerce solution

- User accounts are created with their rights and roles in compliance with security rules.
- The website structure meets the customer's need.
- The website follows the rules of natural SEO.
- The search procedure enables them to solve a technical problem or implement a new feature.
- The watch over known vulnerabilities enables them to identify potential flaws.
- The technical documentation relating to the associated technologies, drafted in English, is understood (without misinterpretations, etc.).

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To Be Continued

Technical competences & details of each :

5 Create a database

- The database conforms to the physical schema.
- The database creation and test data insertion scripts run without errors.
- The DBMS security needs are expressed according to the state of the art and the security requirements identified.
- The search procedure enables them to solve a technical problem or implement a new feature.
- The technical documentation relating to the associated technologies, drafted in English, is understood (without misinterpretations, etc.).

6 Develop data access components

- Processes relating to data manipulations correspond to the features described in the technical design file A unit test is associated with each component, focusing on both function and security.
- The database access components follow the recognized security rules.
- The search procedure enables them to solve a technical problem or implement a new feature.
- The watch over known vulnerabilities enables them to identify potential flaws.
- The technical documentation relating to the associated technologies, drafted in English, is understood (without misinterpretations, etc.).

7 Develop the back end of a web or mobile web application

- Development best practice is followed.
- The server components contribute to the application's security.
- The component source code is documented or auto documented.
- The search procedure enables them to solve a technical problem or implement a new feature.
- The watch over known vulnerabilities enables them to identify potential flaws.
- The technical documentation relating to the associated technologies, drafted in English, is understood (without misinterpretations, etc.).

8 Create and implement components in a content management or e-commerce application

- The additional or created components integrate in the application environment.
- The server components contribute to the application's security.
- The source code is documented or auto documented.
- The tests guarantee that the server processes correspond to the features described in the specifications.
- The search procedure enables them to solve a technical problem or implement a new feature.
- The watch over known vulnerabilities enables them to identify potential flaws
- The technical documentation relating to the associated technologies, drafted in English, is understood (without misinterpretations, etc.).

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Evaluation Levels

Imitate: The student can copy and paste the code from a source and it works, without fully understanding the logic and commands.

Technical presentation wise, the student doesn't answer the question correctly or gives an irrelevant answer.

Adapt: The student can write the code and mostly understands the logic and commands, but needs a little help from a trainer, advisor or expert.

Technical presentation wise, the student answers the question correctly with a hint or help from the asker.

Implement: The student can write the code by him/herself, and fully understands the logic and commands.

Technical presentation wise, the student answers any question regarding the competence directly and correctly.

Evaluation Criteria & Duration

Total duration: one hour for each trainee.

1 English
2 Min

The candidate begins with a quick explanation of the context of their project in English; they should:

- Mention their journey in Orange Coding Academy.
- Mention their internship period.
- Mention the project that this context required.

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2 Presentation
18 Min

The candidate delivers a presentation on their project, putting it into context in terms of their course and their internship.

They should mention the goals and the difficulties associated with the project.

The technical section should be the main focus; showing the design of the project and explaining the technical elements:

- Front-end.
- Back-end.
- Strategies used to link the two final databases,
- Languages used for the different blocks.

3 Demonstration
10 Min

The live project demonstration should be interactive and persuasive.

It should include the technical elements previously mentioned and the trainee can also mention areas for improvement and be critical of their project.

It should focus on the candidate's work and demonstrate all the different functions that they were able to set up for their project.

4 Questions
15 Min

The question-and-answer session should allow for more detailed examination of technical knowledge and the languages used by the trainee.

The questions will initially be theoretical in nature, but the panel can also give the trainee a hypothetical situation, asking them to change the code, and give a live demonstration of the ways in which they would modify their project in order to improve it.

More general questions regarding their understanding of the project may also be asked in order to determine the coherence of the candidate's explanation.

5 Comments
15 Min

The final 15 minutes is an informal oral exchange that allows for a step by step review of the candidate's presentation.

So, one question about the candidate's English, discussing phrases that weren't used correctly, one question about the technical elements, one question about the demonstration, along with important advice about how to improve the method of presentation, the presentation's coherence and the candidate's communication style in general.

This is also an opportunity to discuss the candidate's feelings about how they performed and to allow them to be critical of their own presentation.

Trainees Deliverables

Project Brief

1. Brief in English
2. limited to one page around 20 lines or 200 to 250 words, or around 1,200 characters without spaces

Technical Documentations must follow this typical plan

1. List of framework skills that are covered by the project.
2. Specifications, expression of need, or project functional specifications.
3. Project technical specifications, drafted by the candidate, including for security and the mobile web.
4. Candidate's work including the most significant code excerpts and their justification, including for security and the mobile web.
5. Presentation of the test case developed by the candidate of the most representative feature (input data, expected data and data obtained).
6. Description of the watch over security vulnerabilities, carried out by the candidate during the project.
7. Description of a work situation that required research to be carried out by the candidate during the project, on English language websites.
8. Excerpt from the English language website, used as part of the research described above, accompanied by a translation into English given by the candidate without machine translation (around 750 signs).

Project Presentation

1. Presentation of the company and/or department and the project context (specifications, human and technical environment).
2. Design and coding of back-end components.[Class Diagram and Database Diagram]
3. Presentation of the most significant components, including for security and the mobile web .
4. Presentation of the test case of the most representative feature (input data, expected data and data obtained) & analysis of any discrepancies.
5. Presentation of an example of research carried out from English language sites.
6. Summary and conclusion (satisfactory points and difficulties encountered).

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Thanks