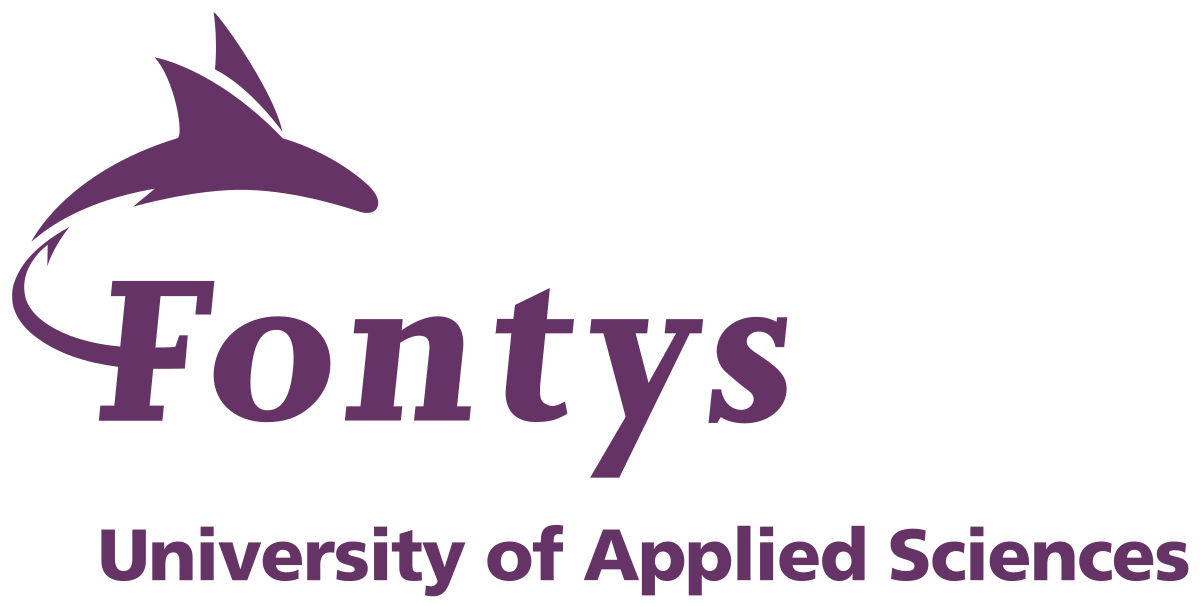
Research Plan

Responsive Design

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| **Date : 12.03.2023** |
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# Problem Description

Web applications have become an essential tool in today's digital world, and users expect a seamless experience across different devices. Responsive web design is critical to ensure the application's usability and accessibility across devices. However, developers often struggle to create responsive designs, particularly using CSS. Therefore, the problem is to understand how to create a responsive web application design using CSS to enhance user experience across different devices.

# Research Questions

**Main Research Question:**

How can web developers make their web application design responsive?

**Sub-questions:**

1. What is responsive web design, and why is it important?
2. What are the fundamental concepts and principles of responsive web design?
3. How can CSS frameworks be used to create responsive web designs?
4. What are the best practices to create responsive web designs?
5. What are the common mistakes to avoid when creating responsive web designs?
6. How can the performance of responsive designs be optimized?

# Research Methods

Table

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The entire research process will be conducted following the guidelines of the DOT research framework. This framework will provide the necessary support to deal with the research related to an ICT project.

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Description automatically generatedThe chosen strategies for this research are:

**Literature review**: A literature review will be conducted to explore the basic concepts and principles of responsive web design.

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Description automatically generatedPrototyping**: A prototype will be developed to explore the use of media queries to create responsive web designs.

Community research:

# Expected Deliverables

* Research report

# Time Estimation

The expected time frame for conducting this research is 9 weeks (3 sprints).

Specify time per week.