

Report SpringApp Project Group 4

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Abstract

10-15 lines with the software technology and the highlights from the project that has been undertaken.

1 Introduction

Approximately 1 page on:

- A brief introduction to the prototype implementation and topic of the project. In this project, an IoT-cloud software system has been developed. The system takes feedback from users in the form of yes/no votes on polls. The polls can be voted on either via an web interface or via an IoT-device.
- Discuss (briefly) the technology stack that has been selected, mention related technologies (if relevant), primary arguments for choice of technology stack.

Here we can maybe add an illustration from the powerpoint

- A brief account of the results that have been obtained in the project.
- A one paragraph overview at the end, explaining how the rest of the report is / has been organised

This rest of this report is organised as follows: Section 2 gives an

2 Software Technology Stack

Introduce in (sufficient) depth the key concepts and architecture of the chosen software technologies. As part if this, you may consider using a running example to introduce the technology.

Emphasize the “new” software technologies that was selected by the group and which has not been covered in the course.

This part and other parts of the report probably needs to refer to figures. Figure 1 from [?] just illustrates how figure can be included in the report.

Angular: The front-end of the FeedApp is developed using Angular. Angular is a widely used framework that is used for building single-page applications (SPAs).

Fundamental Concepts of Angular:

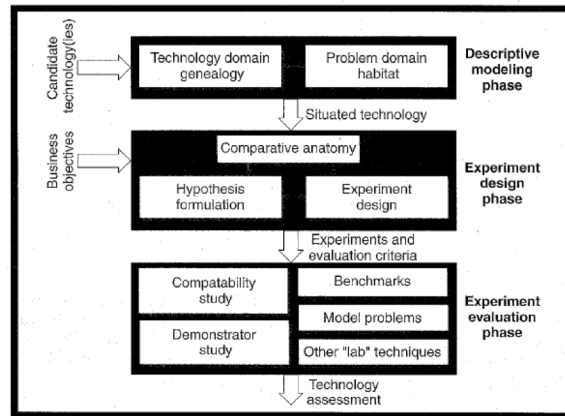


Figure 1: Software technology evaluation framework.

Components : The angular application is built upon components. For every component, there is a HTML template for the content of the web interface and a TypeScript class that controls the logic. The components are what defines the views, which is what is displayed to the user on the webpage.

Modules :

Data Binding :

Dependency Injection :

Directives :

Routing : The routing service defines which direction a view should navigate to

Resources used for writing this paragraph: <https://angular.io/guide/architecture>

3 Demonstrator Prototype

About 4 pages on:

1. An architectural overview of the application that has been implemented
2. High-level design, domain model, ... (App assignment A)
3. May involve selected models from Chaps. 5 of the IoT and cloud books

The example below shows how you may include code. There are similar styles for many other languages - in case you do not use Java in your project. You can wrap the listing into a figure in case you need to refer to it. How to create a figure was shown in Section 2.

```

1 public class BoksVolum {
2
3     public static void main(String[] args) {
4

```

Config	Property	States	Edges	Peak	E-Time	C-Time	T-Time
22-2	A	7,944	22,419	6.6 %	7 ms	42.9%	485.7%
22-2	A	7,944	22,419	6.6 %	7 ms	42.9%	471.4%
30-2	B	14,672	41,611	4.9 %	14 ms	42.9%	464.3%
30-2	C	14,672	41,611	4.9 %	15 ms	40.0%	420.0%
10-3	D	24,052	98,671	19.8 %	35 ms	31.4%	285.7%
10-3	E	24,052	98,671	19.8 %	35 ms	34.3%	308.6%

Table 1: Selected experimental results on the communication protocol example.

```

5      int b, h, d;
6      String btext, htext, dtext;
7
8      [ ... ]
9
10     int volum = b * h * d;
11
12     String respons =
13         "Volum [" + htext + "," + btext + "," + dtext + "] = " + volum;
14
15 }
16 }
```

4 Prototype Implementation

This section should provide details of how the prototype has been implemented which may involve presentation of suitable code snippets.

5 Test-bed Environment and Experiments

About 2 pages that:

Explains how the prototype has been tested the test-bed environment.

Explains what experiments have been done and the results.

For some reports you may have to include a table with experimental results are other kinds of tables that for instance compares technologies. Table 1 gives an example of how to create a table.

6 Conclusions

Concludes on the project, including the technology, its maturity, learning curve, and quality of the documentation.

The references used throughout the report should constitute a well chosen set of references, suitable for someone interesting in learning about the technology.