

Guidelines for final project report

ITD 25108 Teknologiprojekt

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The final report is worth 50 points, and the project presentation is also worth 50 points. Each team should upload a single PDF file on the relevant link in Inspira.

Your report should be no longer than 20 pages (excluding appendices).

The purpose of the final report is to:

[2 points] give a closing summary,

[1 points] mention the benefits/significance of solving the problem,

[15 points] describe the methods chosen for solving the problem by giving:

- [4] the overall solution architecture,
- [4] key ingredients of design and implementation,
- [4] design theory explain why you expect,
- [3] explanation on why you got the results that you got.

[32 points] summarize the Business economics aspects of the project (same as Øppgave 2)

[0 points] give recommendations for continuing the work

- Should a follow-on project be created ?
- If yes, what should a follow-on project focus on ?

With a good planning report, another team that reads it can

- judge whether the project can be declared as successfully concluded,
- judge whether the budgetted resources were adequate,
- learn and judge your technical design, and
- judge your results, and see whether your explanation is adequate.

You do not have to append your project Python code as an appendix. You can do so if you wish, or you can put a link to an online repository, such as github, hosting your code.

Below is a template for a planning report.

Part 1: Technical part

1 Closing summary

List clearly the aims of this project, and report whether each of the aims was met or not. From this list, the project funders can decide whether the project can be closed, or needs extra work to be done before it can be closed.

2 Benefits and significance

Describe the chief concrete benefits to be gained by a successful completion of this project. In other words, why do we want the expected outcome ?

3 Methods

3.1 Overall solution architecture

Giving a conceptual view of your technical solutions. For example, using a Block diagram or a flow chart.

3.2 Components

Describing the key solution components, and what design questions have to be answered. Say also how you shall answer these questions. For example, while describing the motion control component, spell out your candidate algorithms for motion control, and whether you shall use existing tools or create new tools for tuning and testing these algorithms.

3.3 Design theory

Explain why your chosen architecture is expected to succeed. Give very short summaries of design principles or results from previous projects, that you are depending upon.

4 Technical results

Describe the results: Here 15 points are allotted for the actual results documents, and 5 points for your explanation of reasons for your result.

4.1 Document results

- State your results.
- document your results by giving weblinks to uploaded videos of your robot on the course,

4.2 Explanation

Explaining the reasons why you got the results that you got.

Part 2: Report on business and economic case

Report on starting up business based on technical solution. Developing the relevant financial elements to get proper financing from investors and banks. Remember to explain well the assumptions behind the numbers, as detailed in Øvingsoppgave 3.

ØKONOMIDEL med følgende elementer:

1. [8 points] Kort presentasjon av produktet og markedet dere vil selge det til. Redegjør for valg av selskapsform.
2. [8 points] Årsbudsjett. Tenk oppstart 1.1.2020. Her må dere bryte ned budsjettet i variable, faste, direkte og indirekte kostnader. «Slå dere løs» - vær optimister og budsjetter med god omsetning.
3. [4 points] Beregn kapitalbehov til investeringer og drift med en finansieringsplan – bruk kapitalbehov og finansieringsmodellen. Husk; det er realistisk at investorer og banker stiller opp siden dere har ett genialt, nyskapende produkt.
4. [2 points] Vurdering av likviditet og finansiering. Bruk likviditetsgrad 1, arbeidskapital og egenkapitalprosent som nøkkeltall.
5. [6 points] Et likviditetsbudsjett på tre måneder for oppstarten. Ta med mva på betalbare kostnader – sett opp alle typer inn- og utbetalinger.
6. [4 points] Kalkyler – Selvkostkalkyle og dekningspunktanalyse, hvis flere produkt, velg ett. Viktig å finne prisen på det dere skal selge som gir et nærmere bestemt overskudd, og mengde som gir 0- resultat