



ELPID

E-learning Platform
for Innovative
Product Development

TEMPLATES FOR STUDENTS

1st Phase Report Template

October, 2020



ELPID 2020 course

Team name

Phase # report

Coach(es):

Coach 1

Coach 2

Team members:

Team member 1

Team member 2

Team member 3

Team member 4

Team member 5

Team member 6

Team member 7

Team member 8

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SUMMARY:

1 Introduction

- Briefly describe the wider problem which you aim to solve and describe current trends in the field
- Introduce how the two given problems fit into your wider problem
- Give a brief overview of the report (what is written in each section)

2 Washing machine

- Briefly write about current state of the art of washing machines

2.1 Problem statement

- Based on the state of the art and description provided by the company, explain the problem

2.2 User research

- Provide information about approach you took to collect and present information about users

2.3 Provide user opinions on the reuse of water from washing machine Existing solutions

- Explain which subproblems you investigated more thoroughly (e.g. where the water can be used, how to store water)
- Give an overview of how you tackled to get more information on each subproblem (figure containing an information model would be preferable)

2.3.1 Subproblem 1

- Briefly explain the subproblem
- Provide information about relevant keywords and which analogous problem you identified

2.3.1.1 Patent search

- Provide an overview of patent databases
- Present strategy used to collect patents (keywords and logic operators)
- Give an overview from the patent search (e.g. # of patents, distribution per year)
- Cluster the patents and sum up the findings from each cluster

2.3.1.2 Publication search

- Provide an overview of explored databases
- Present strategy used to collect relevant publications (scientific papers, books etc.)
- Give an overview from the publication search (e.g. # of publications, distribution per year)
- Cluster the publications and sum up the findings from each cluster

2.3.1.3 Competitors search

- Find out what competitors do to tackle the problem (use Google search, Indiegogo, Kickstarted and similar sources)
- Cluster the competitors' solutions and sum up the findings from each cluster

2.3.1.4 Other sources

- Identify problems and solutions from other sources such as user research, regulations, asknature.org, the effect database, TRIZ principles etc.
- Sum up the findings

2.3.2 *Subproblem 2*

- Same structure for each subproblem (see 2.3.1)

2.4 Network of problems and partial solutions

- Provide the Network of problems in Appendix
- Cluster the problems and explain each cluster
- Present solutions for each cluster identified from the search
- Identify unsolved problems and opportunities for the assigned problem

2.5 Visions

- Explain creative methods which you used to generate visions
- Present visions to show possible directions which might help you to solve the problem/problems

3 Dishwasher

- Briefly write about current state of the art of washing machines

3.1 Problem statement

- Based on the state of the art and description provided by the company, explain the problem

3.2 Existing solutions

- Explain which subproblems you investigated more thoroughly (e.g. how to remove moisture)
- Give an overview of how you tackled to get more information on each subproblem (figure containing an information model would be preferable)

3.2.1 Subproblem 1

- Briefly explain the subproblem
- Provide information about relevant keywords and which analogous problem you identified

3.2.1.1 Patent search

- Provide an overview of patent databases
- Present strategy used to collect patents (keywords and logic operators)
- Give an overview from the patent search (e.g. # of patents, distribution per year)
- Cluster the patents and sum up the findings from each cluster

3.2.1.2 Publication search

- Provide an overview of explored databases
- Present strategy used to collect relevant publications (scientific papers, books etc.)
- Give an overview from the publication search (e.g. # of publications, distribution per year)
- Cluster the publications and sum up the findings from each cluster

3.2.1.3 Competitors search

- Find out what competitors do to tackle the problem (use Google search, Indiegogo, Kickstarted and similar sources)
- Cluster the competitors' solutions and sum up the findings from each cluster

3.2.1.4 Other sources

- Identify problems and solutions from other sources such as user research, regulations, asknature.org, the effect database, TRIZ principles etc.
- Sum up the findings

3.2.2 Subproblem 2

- Same structure for each subproblem (see 3.2.1)

3.3 Network of problems and partial solutions

- Provide the Network of problems in Appendix
- Cluster the problems and explain each cluster
- Present solutions for each cluster identified from the search
- Identify unsolved problems for the assigned problem

3.4 Visions

- Present visions to show possible directions which might help you to solve the problem/problems

4 Conclusions

- Write what you identified as subproblems
- Write what you identified as opportunities for each of the two problems
- Write future directions

5 References

- Insert Bibliography (all the references which you used throughout the text)
- Hint: you can use Mendeley or similar referencing tools