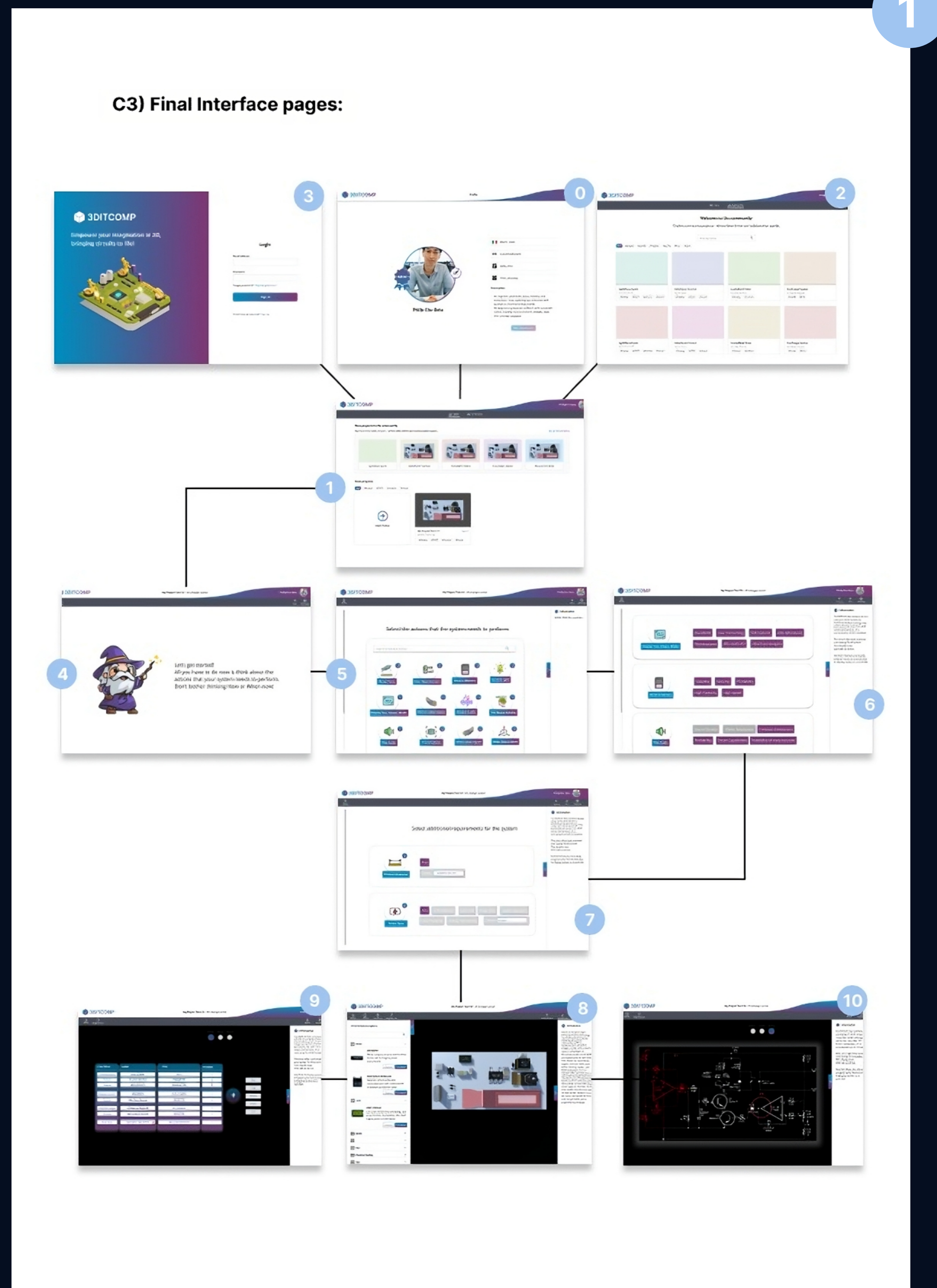


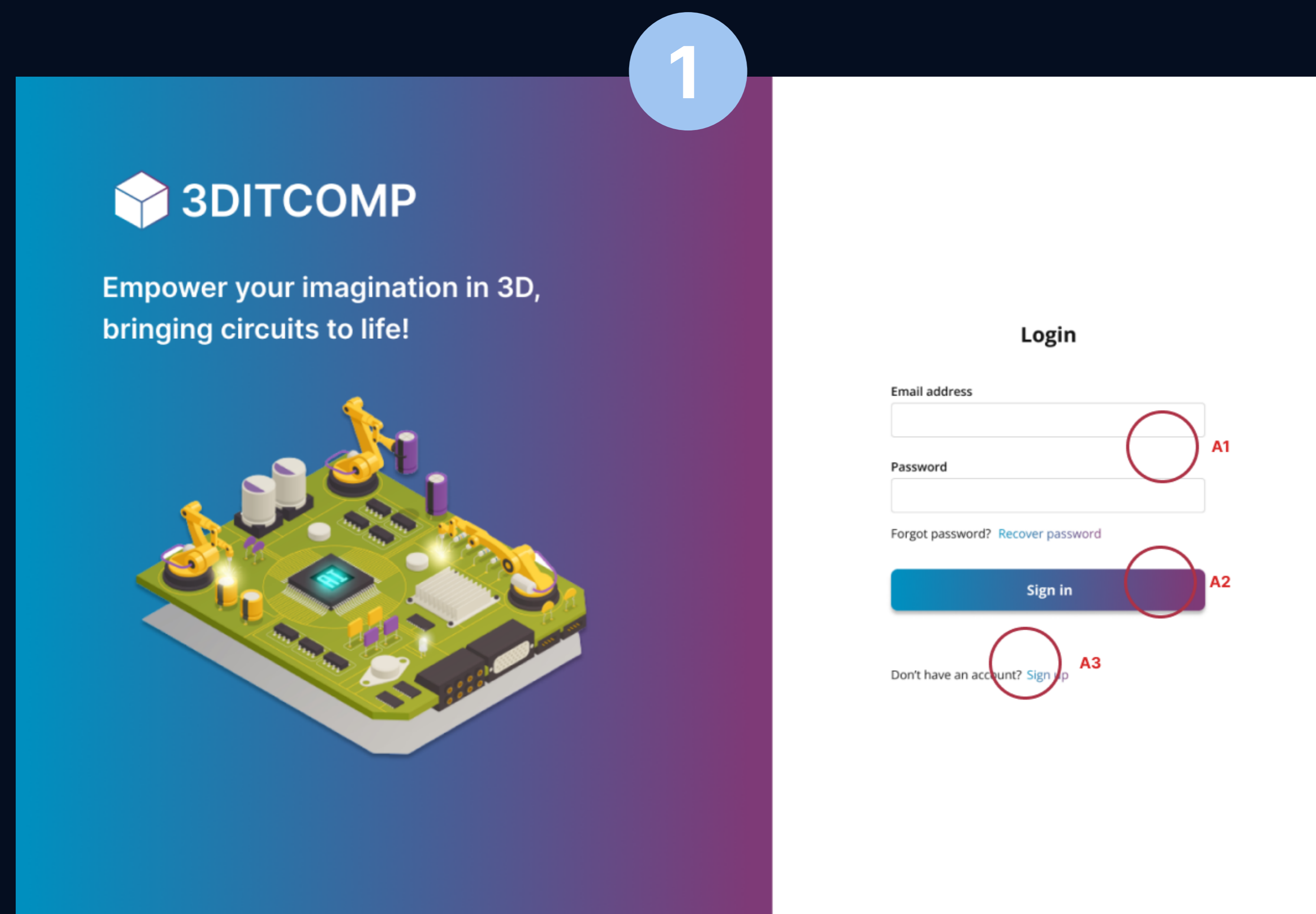
Table 0 - Final interface

Figure 1

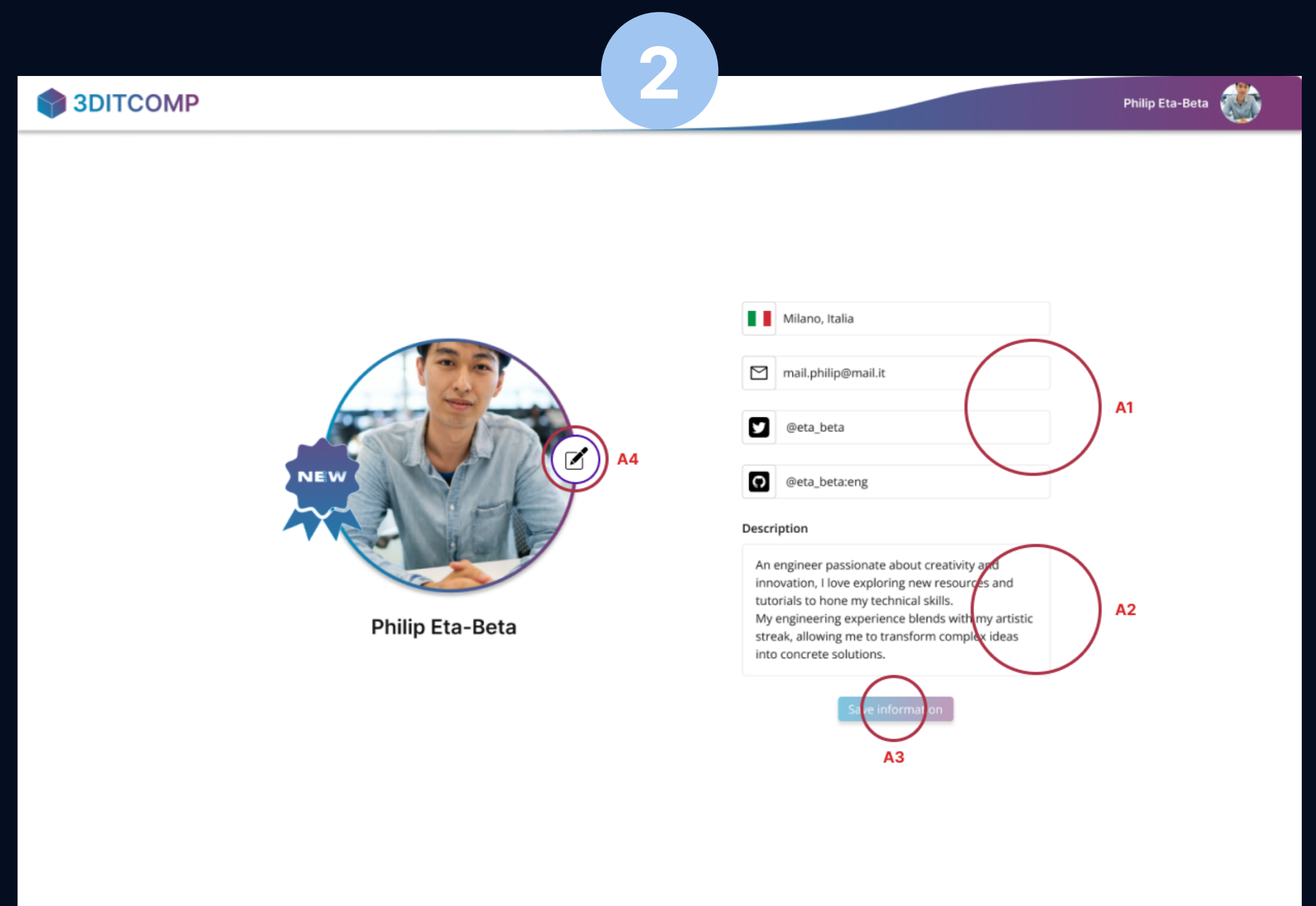


Interface final design

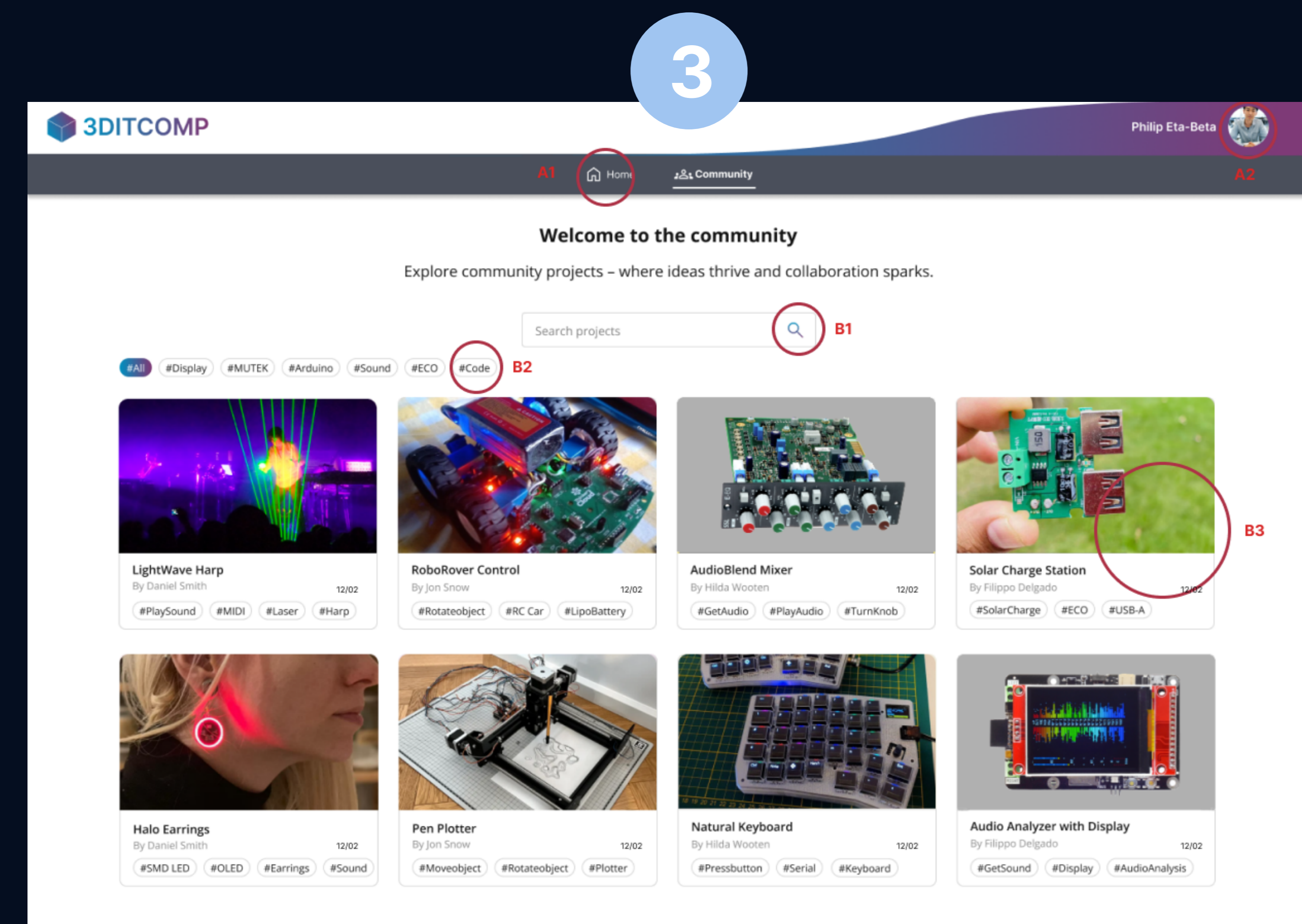
Table 1 - Interface Pages (1/4)



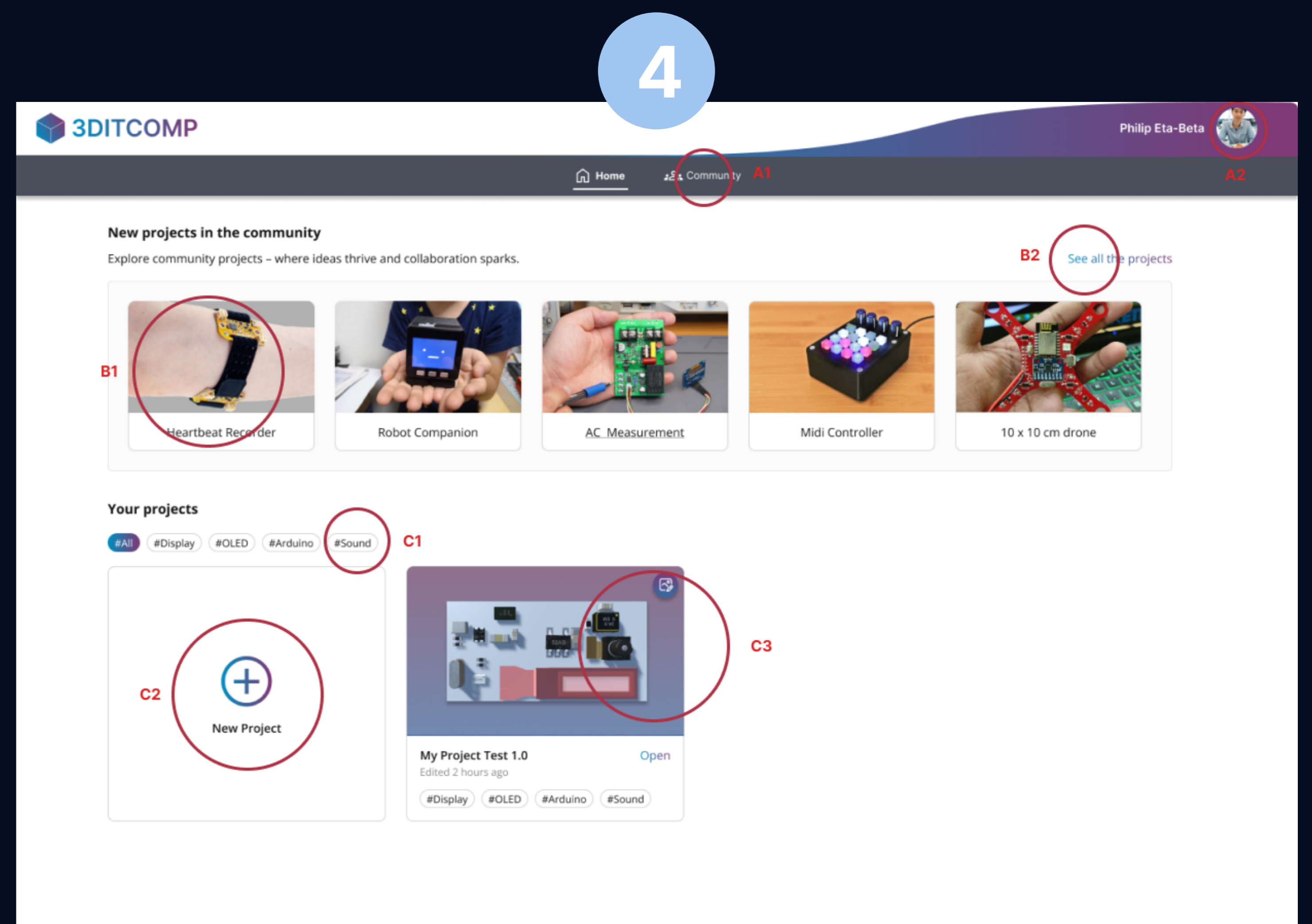
Login Page



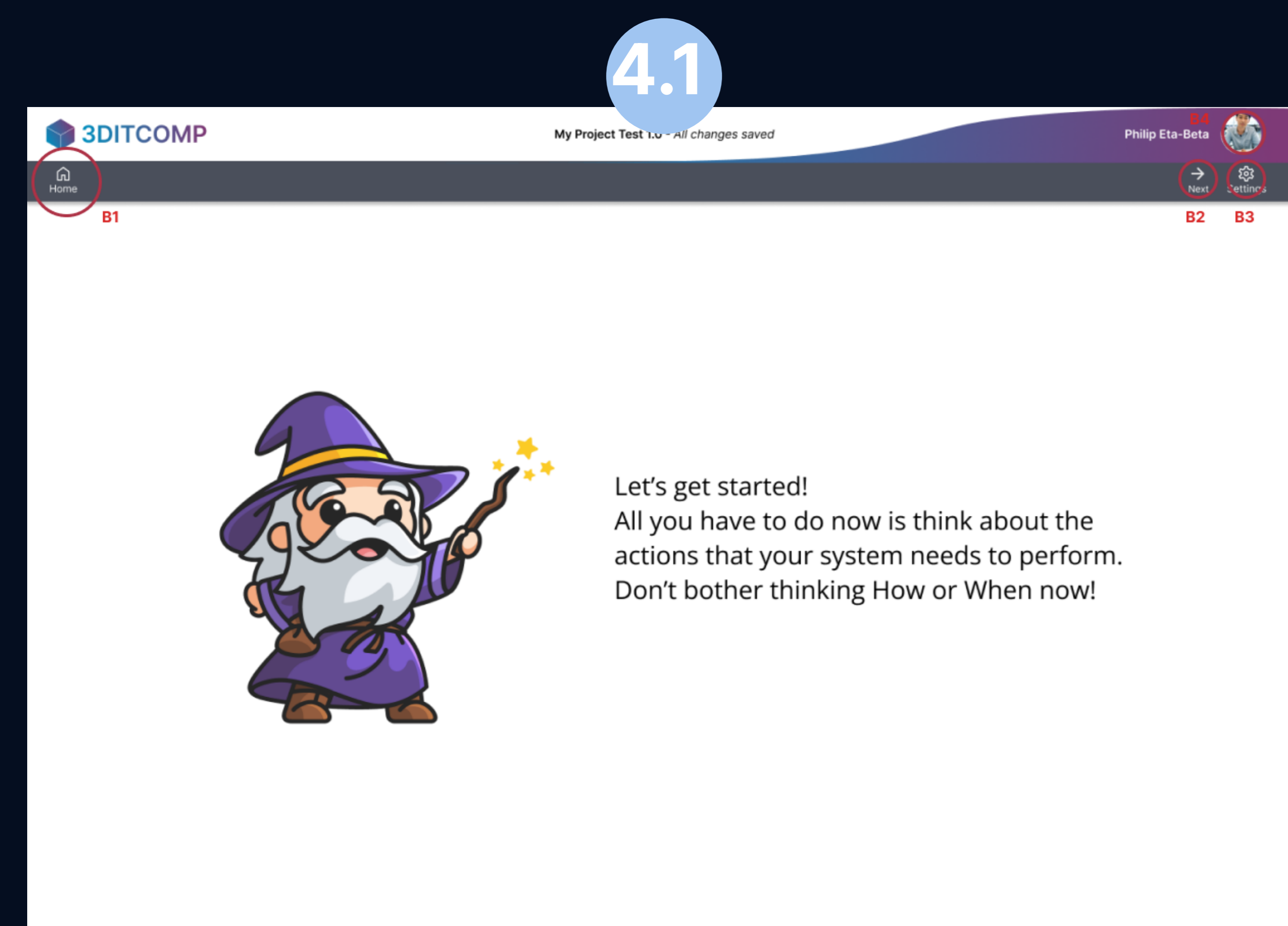
Profile Page



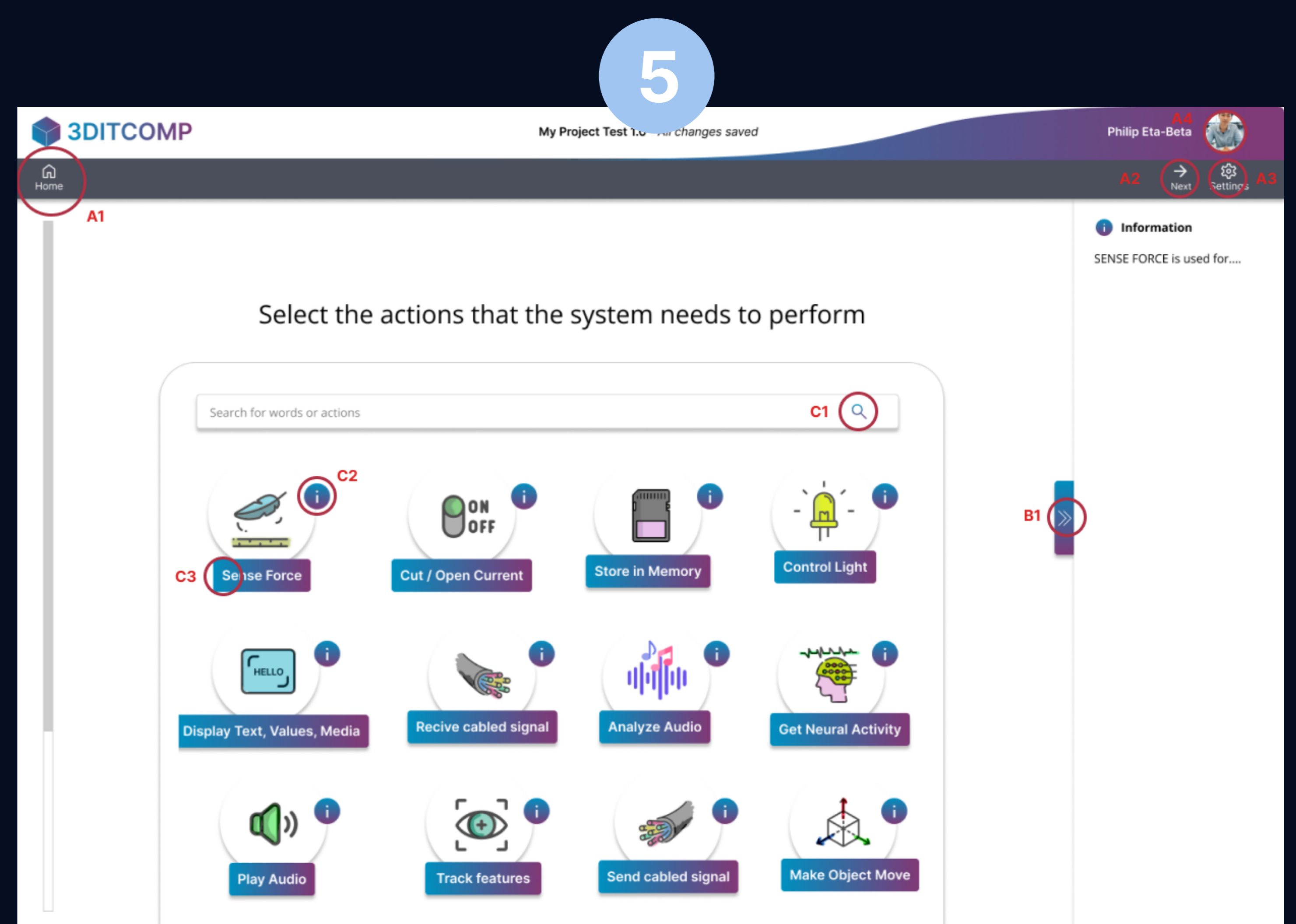
Community Page



Home (Landing) Page



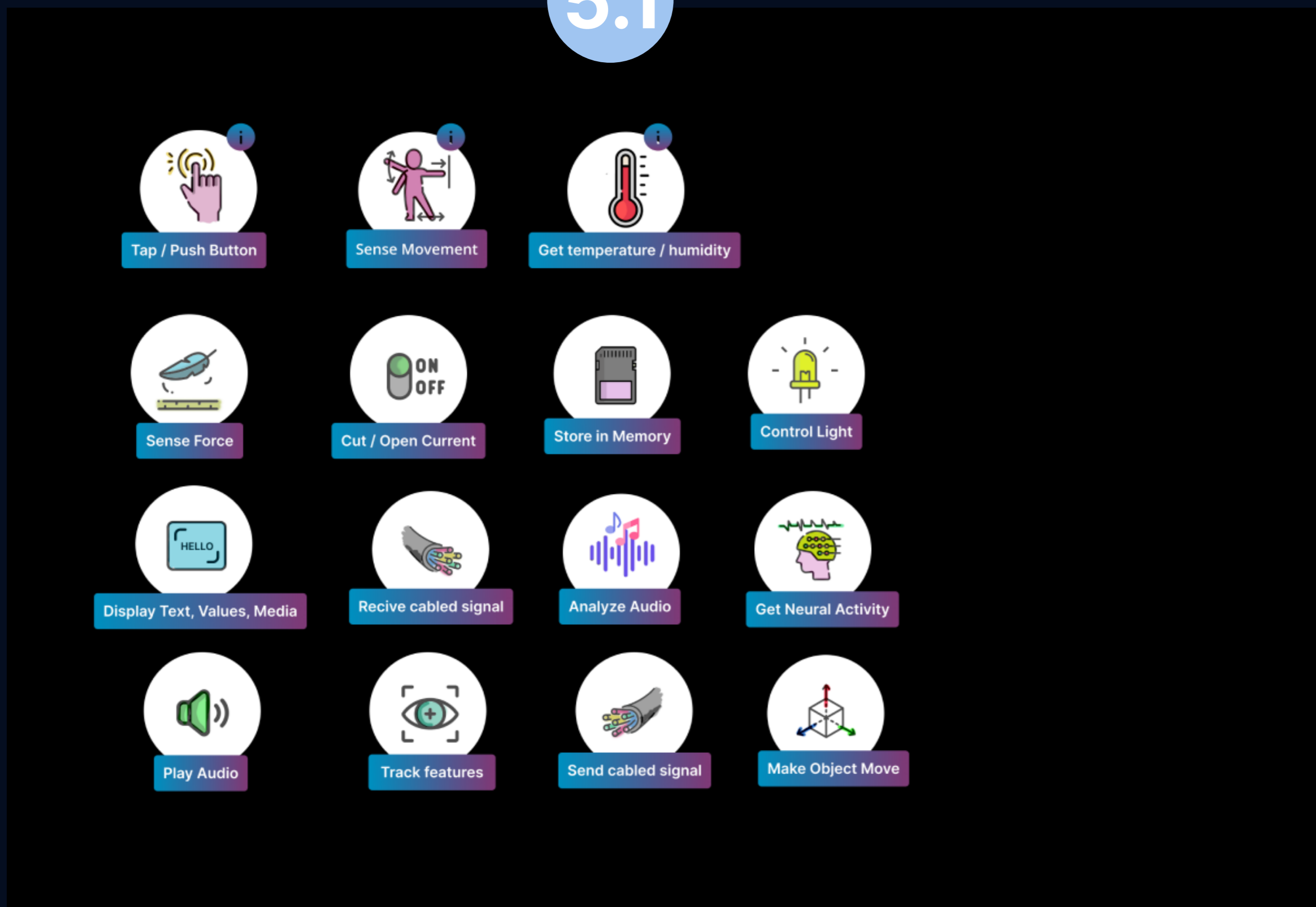
Wizard guide (1/4)



Action Selection Page

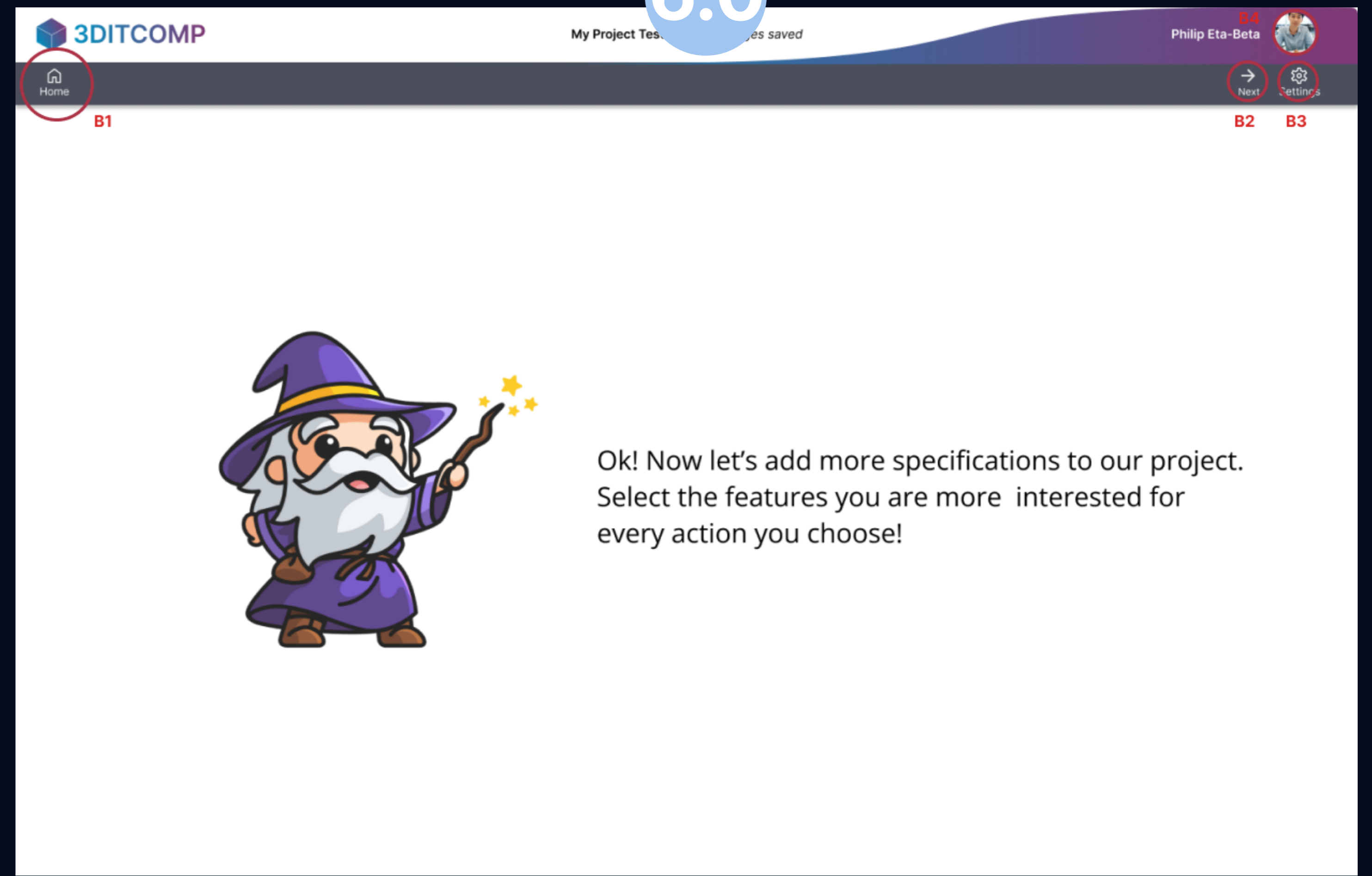
Table 2 - Interface Pages (2/4)

5.1



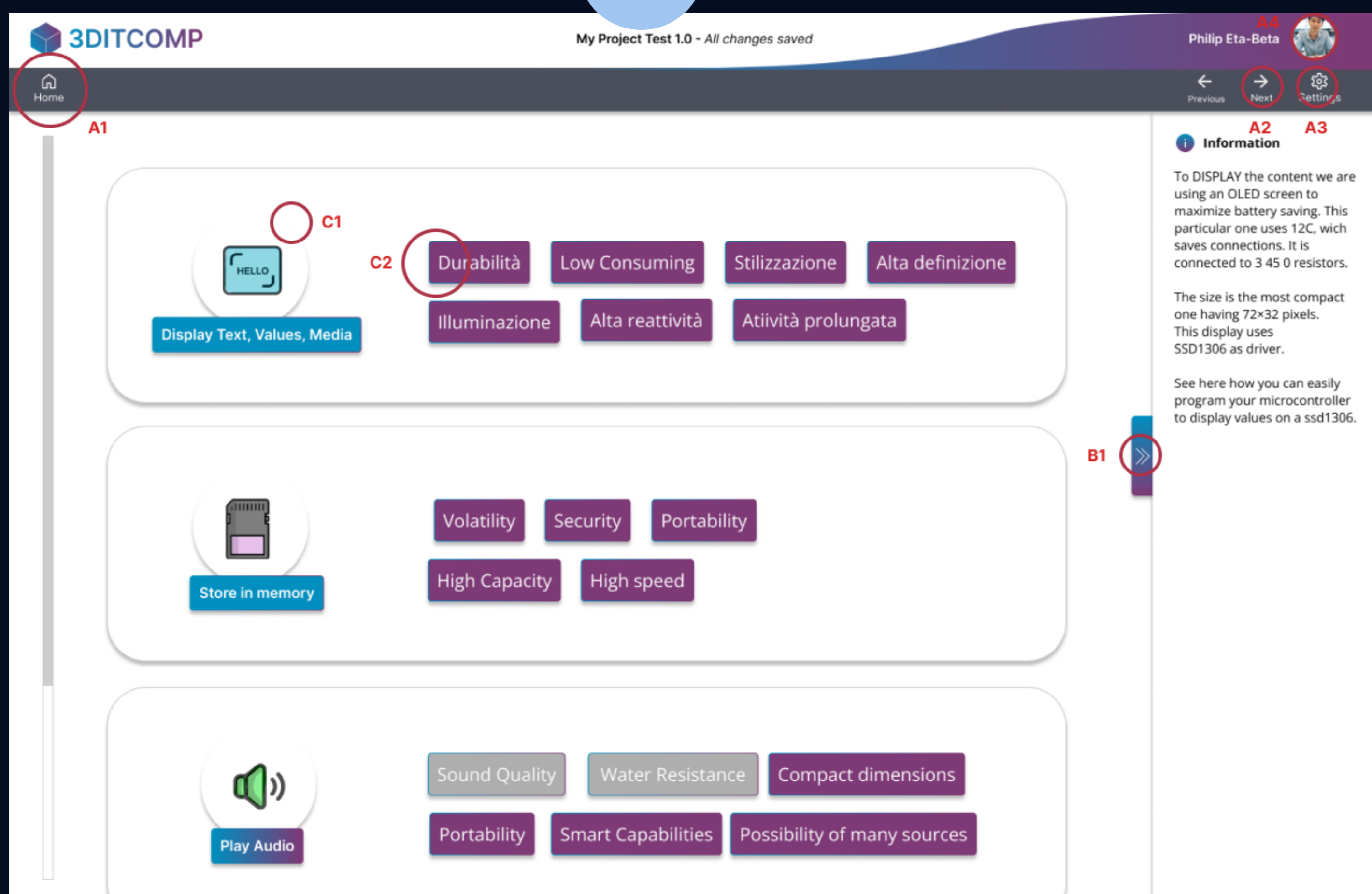
Action Selection Page - Available actions

6.0



Wizard guide (2/4)

6



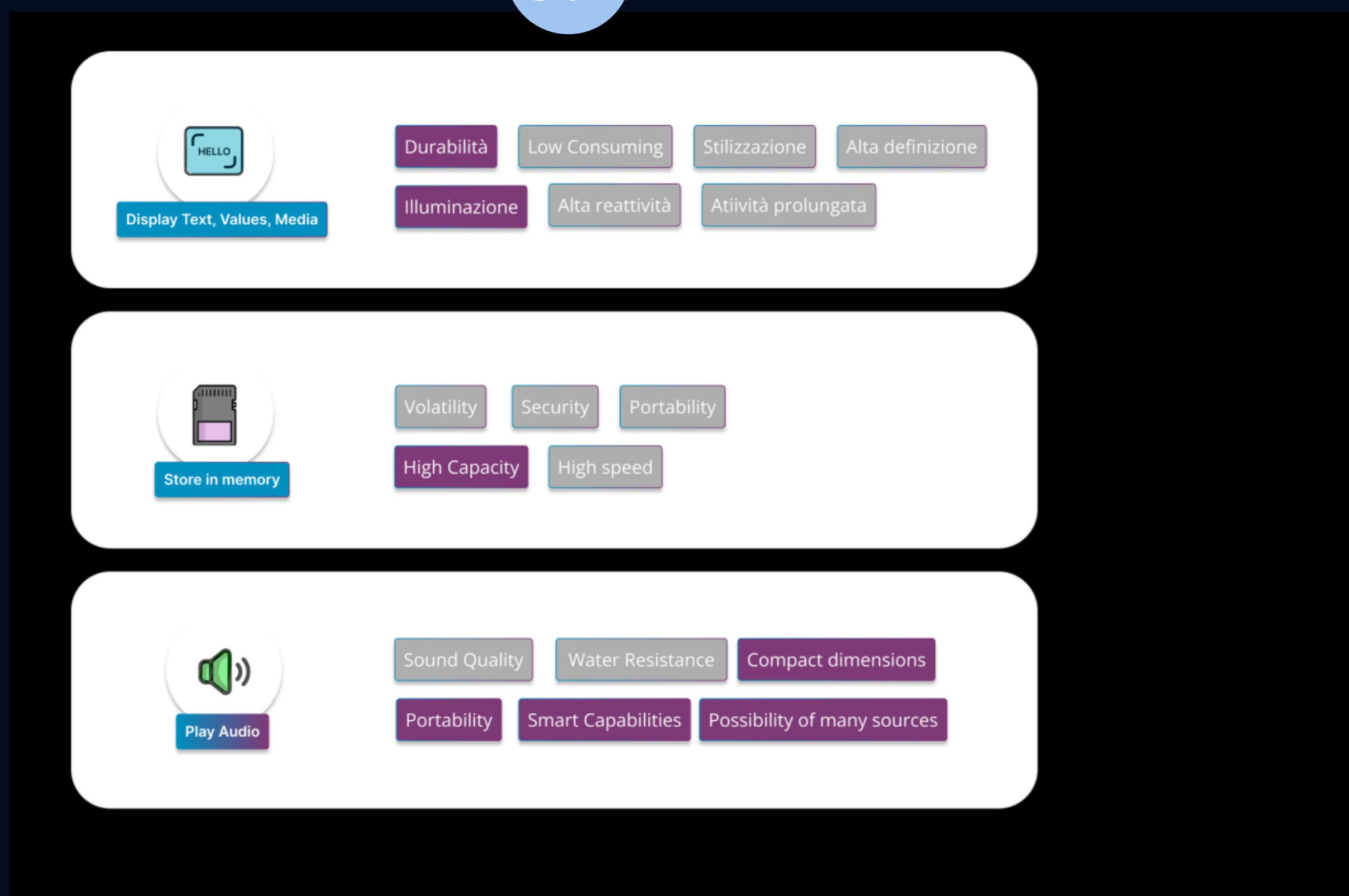
Action Details Page

6.1



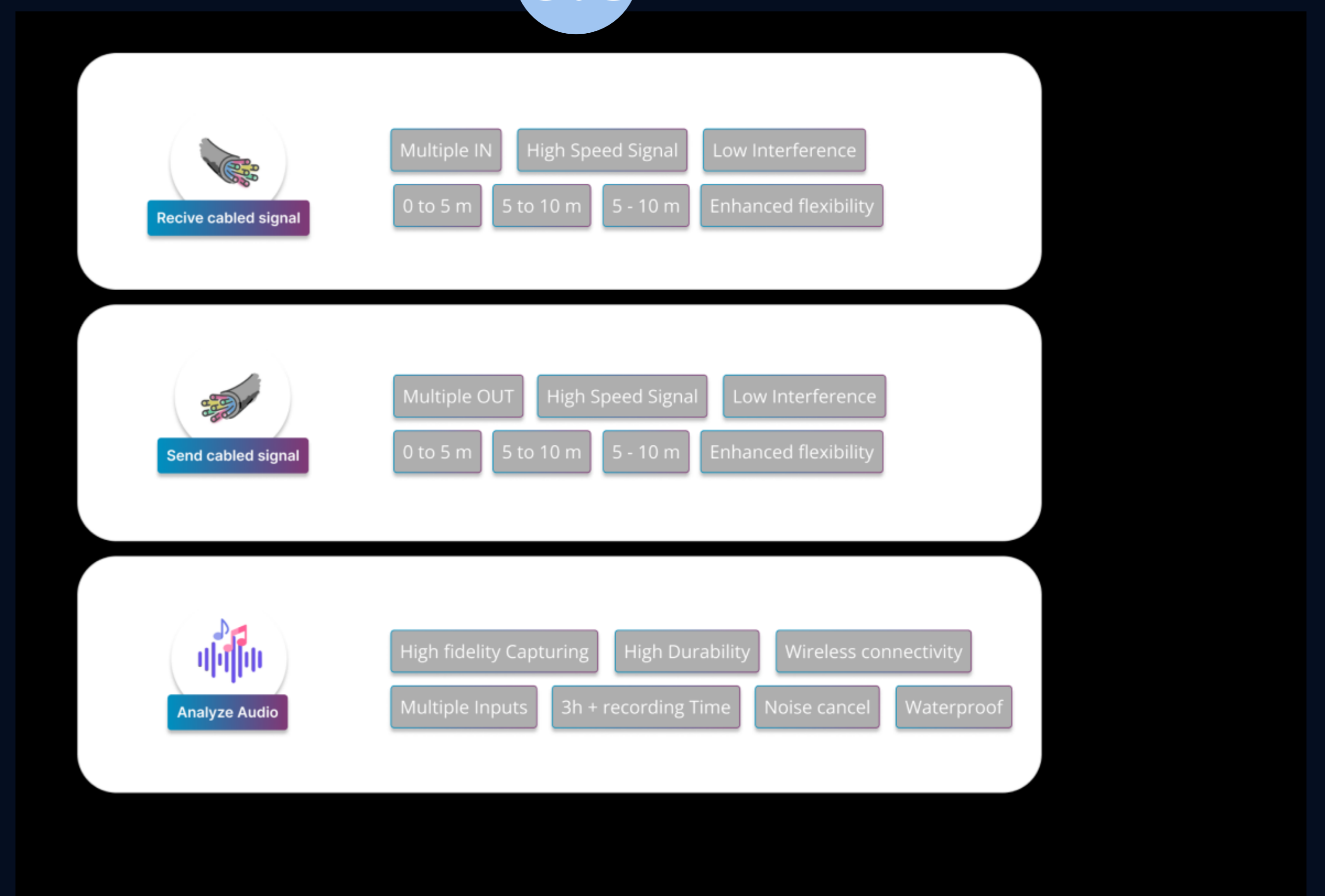
Action Details Page - Available details

6.2



Action Details Page - Available details

6.3



Action Details Page - Available details

Table 3 - Interface Pages (3/4)

6.4



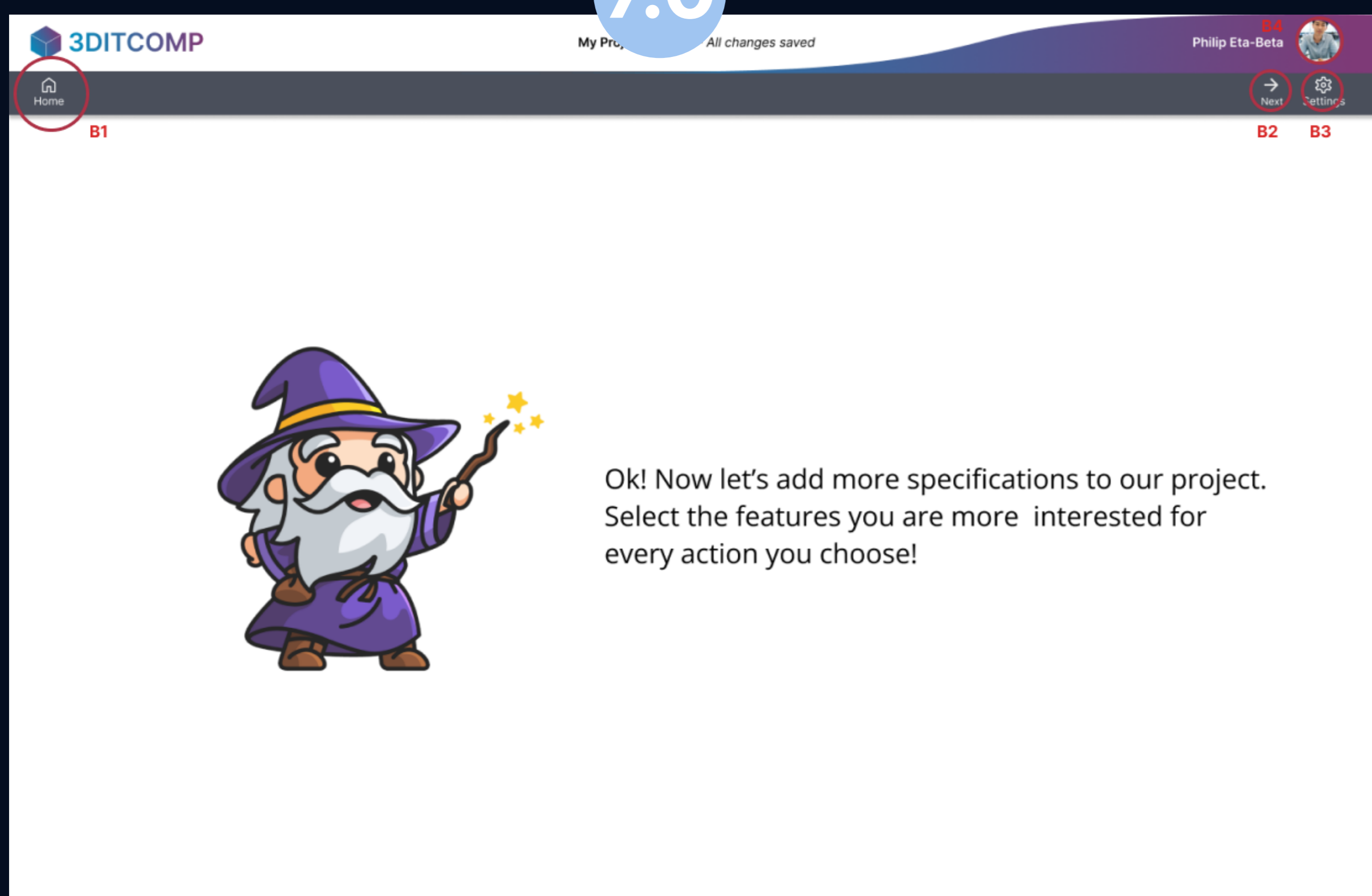
Action Details Page - Available details

6.5



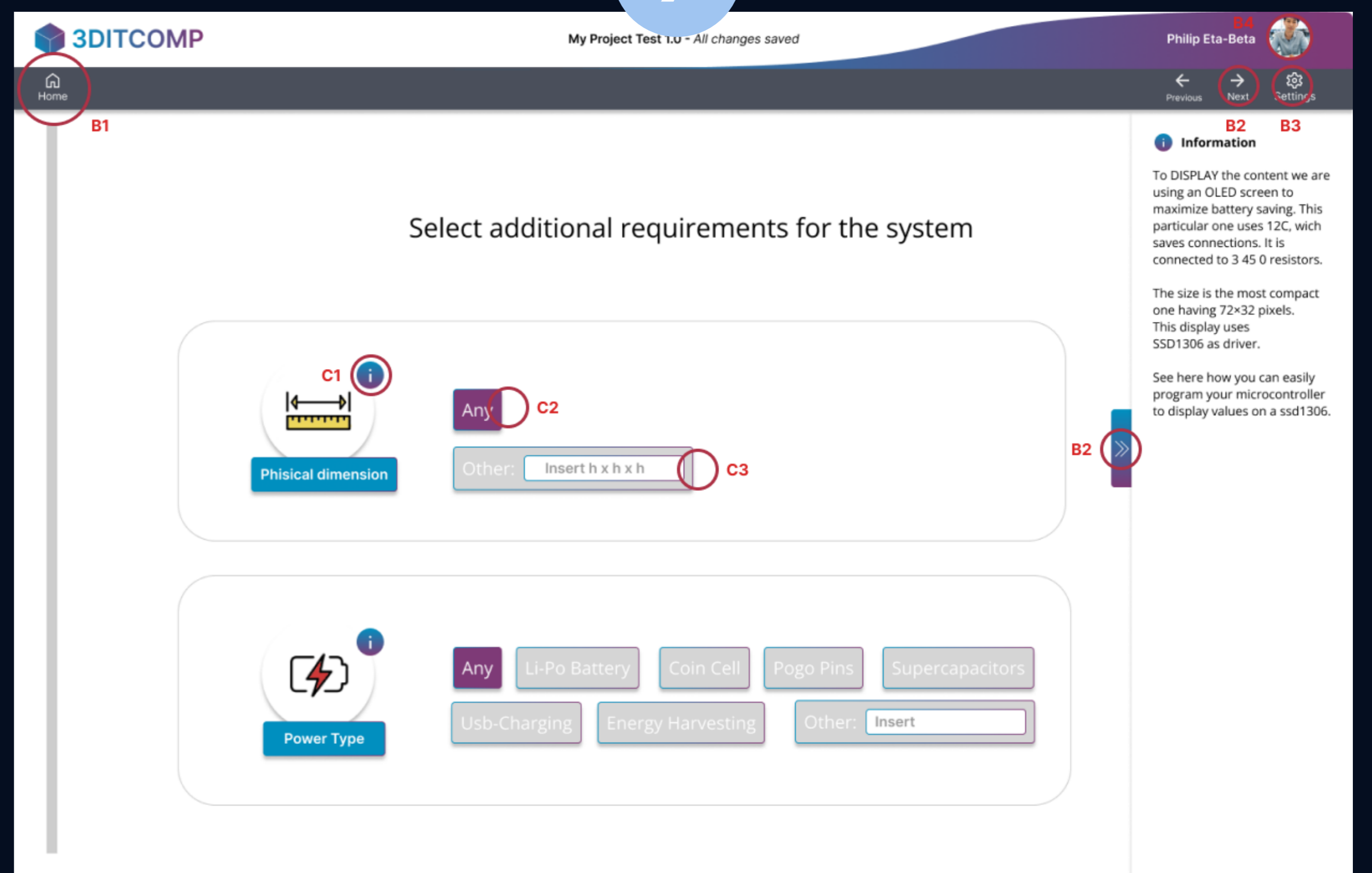
Action Details Page - Available details

7.0



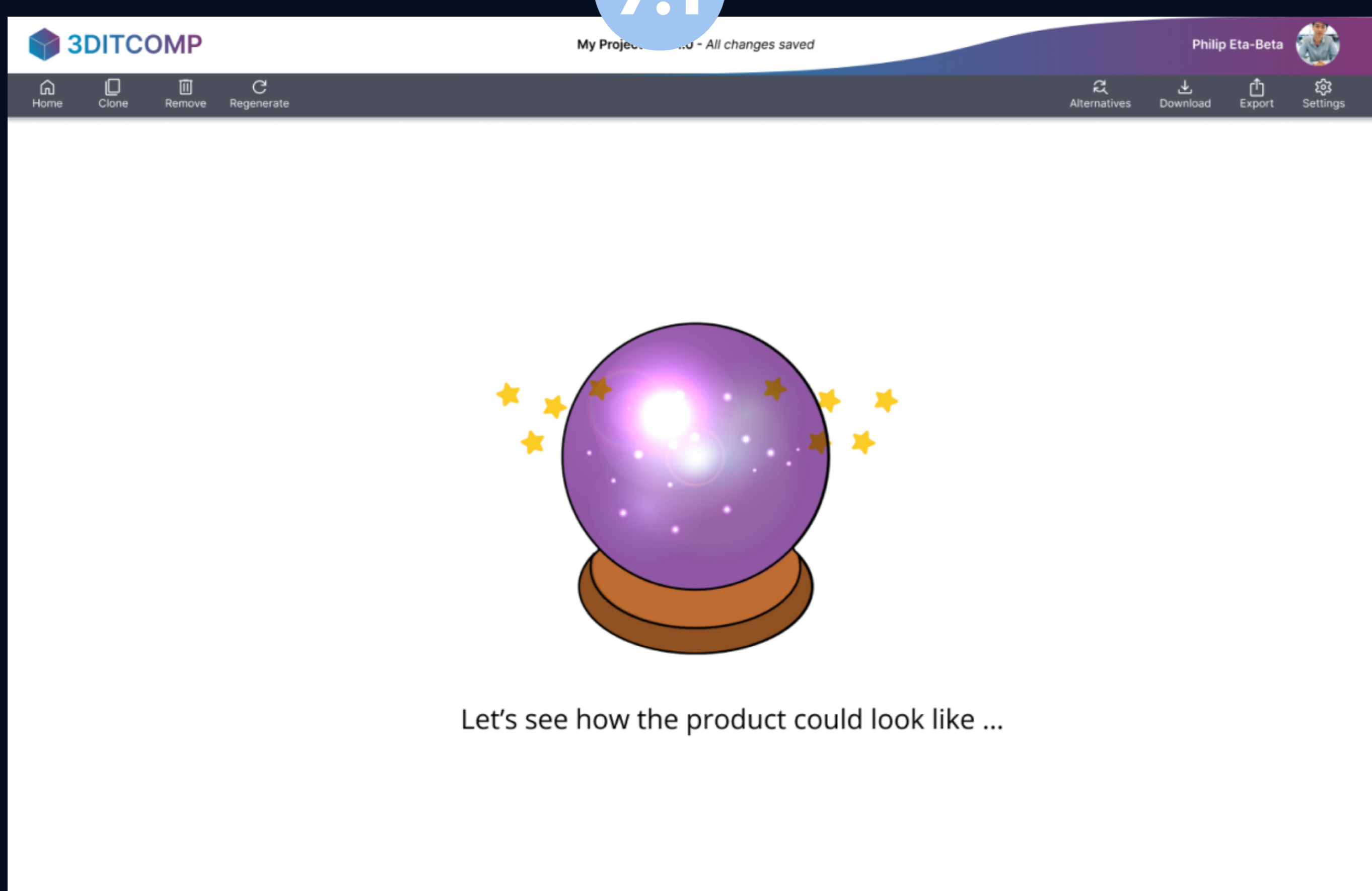
Wizard guide (3/4)

7



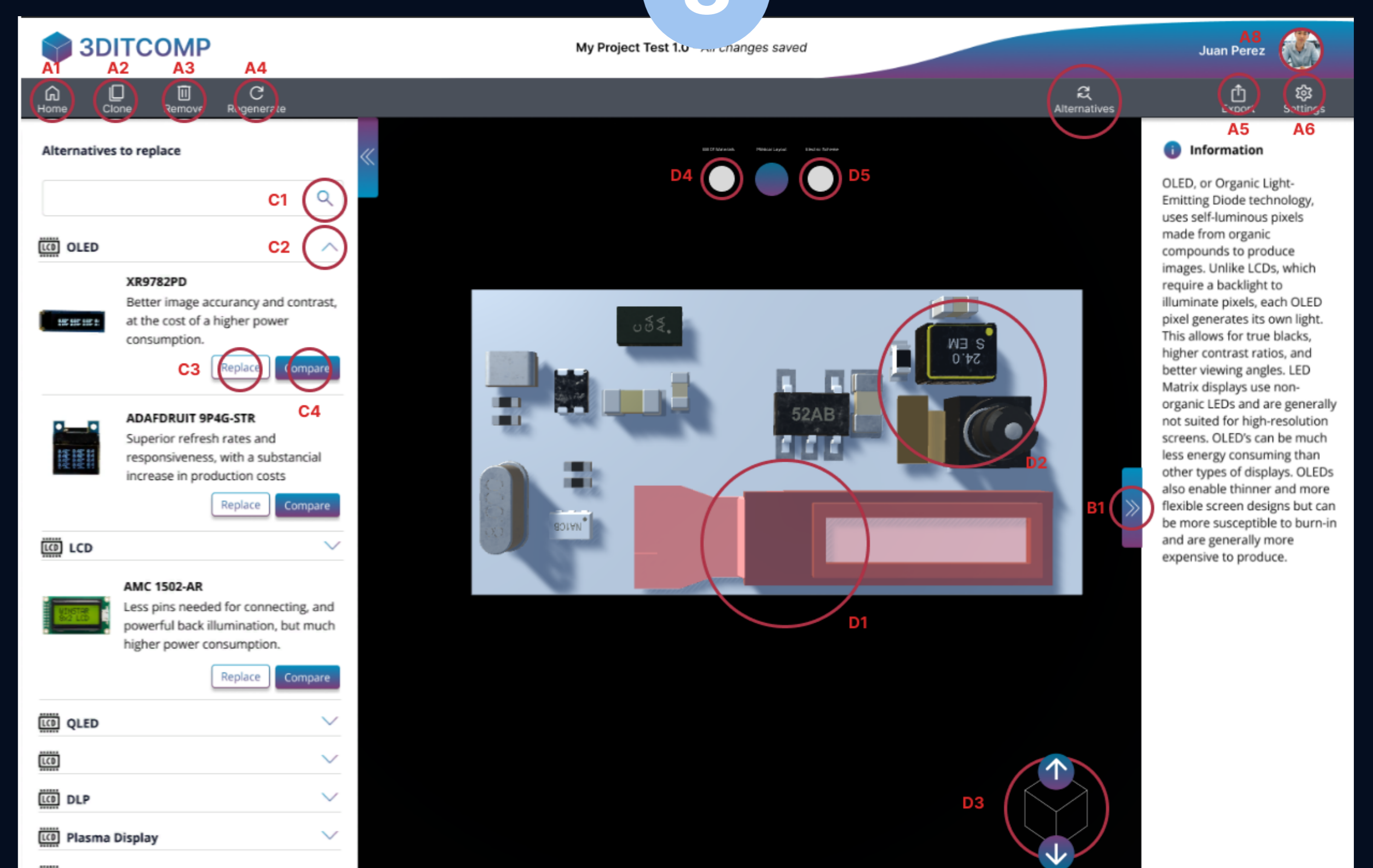
Additional requirements page

7.1



Wizard guide (4/4)

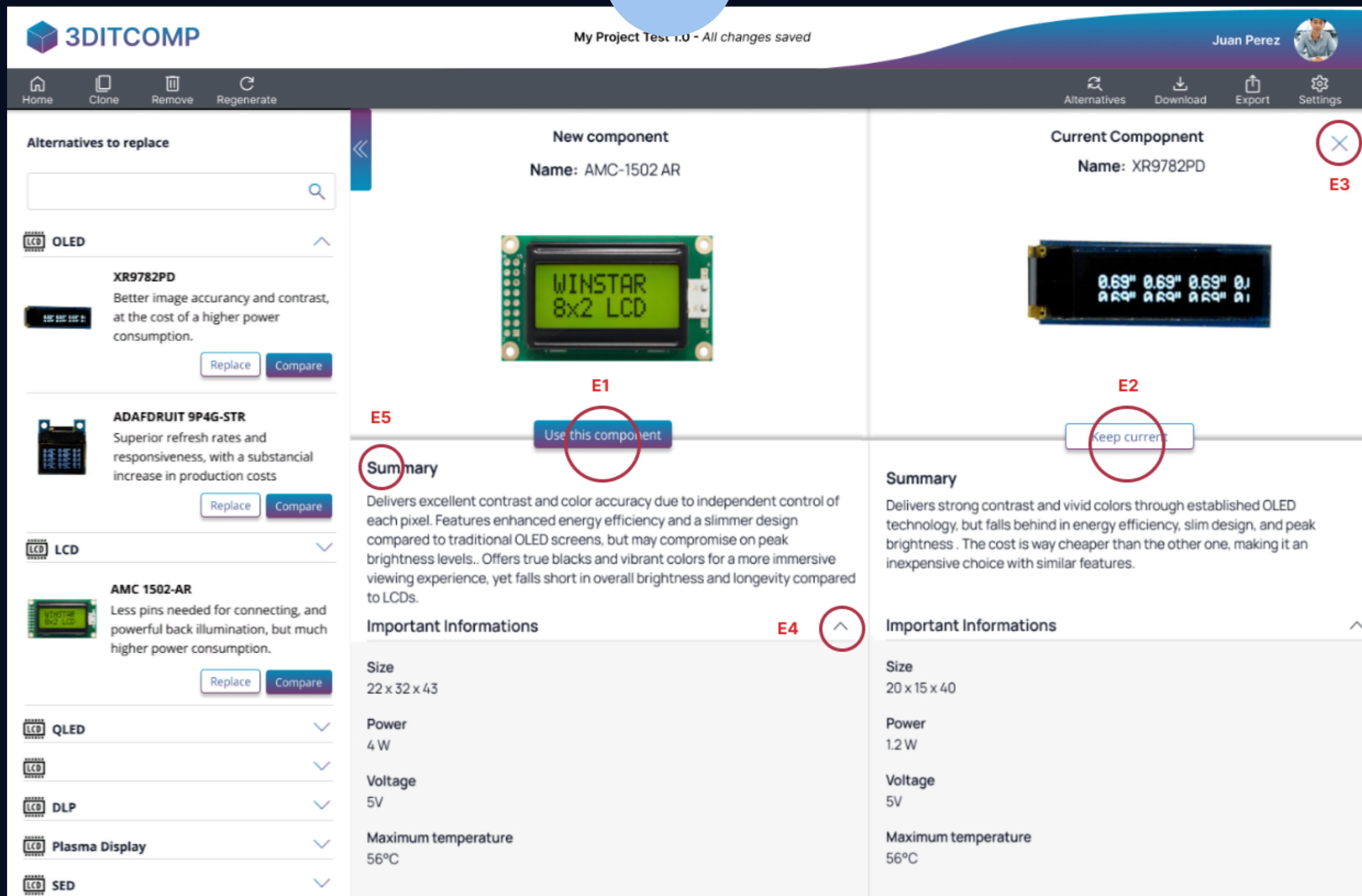
8



Physical Layout page

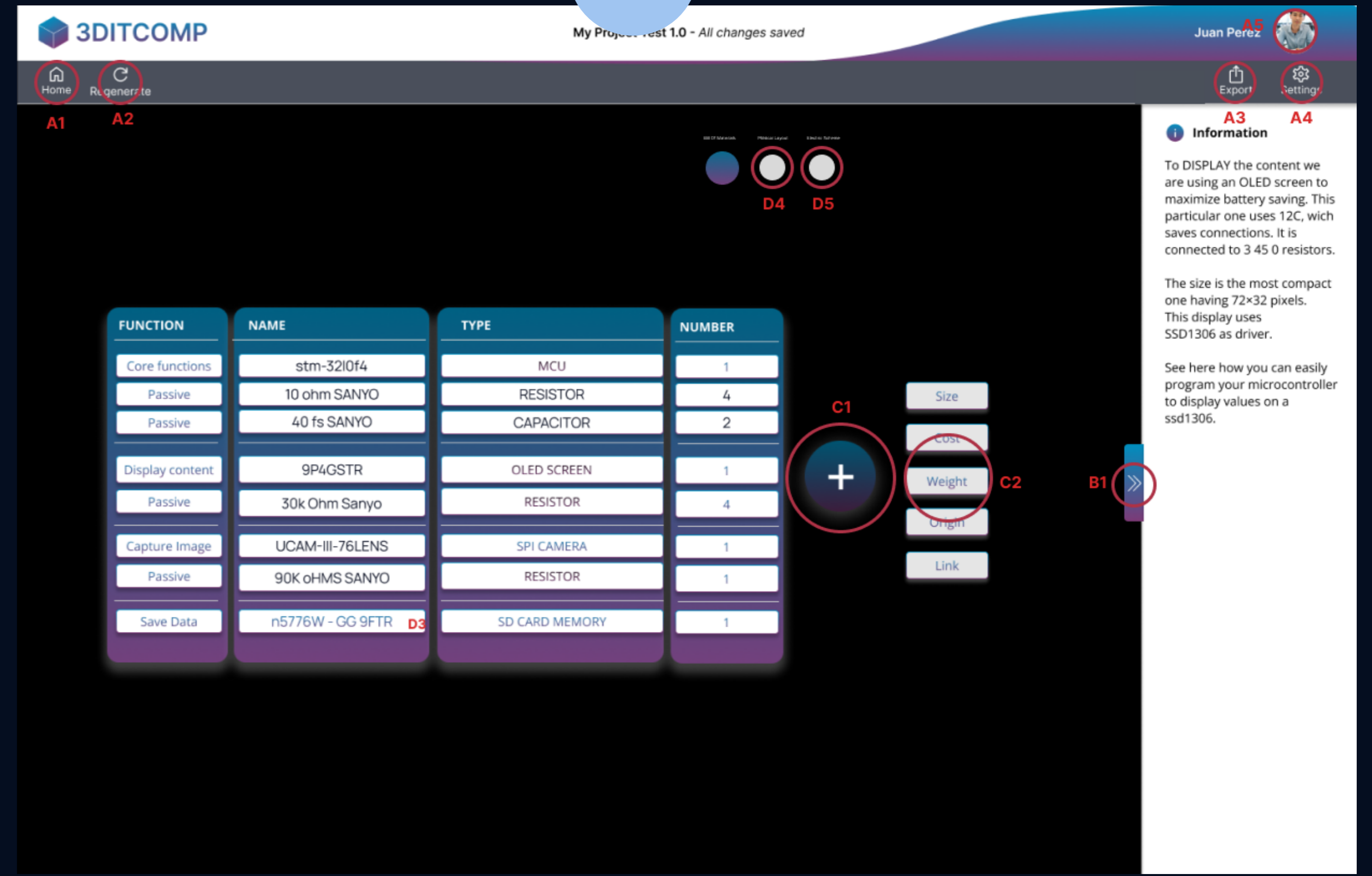
Table 4 - Interface Pages (4/4)

8.1



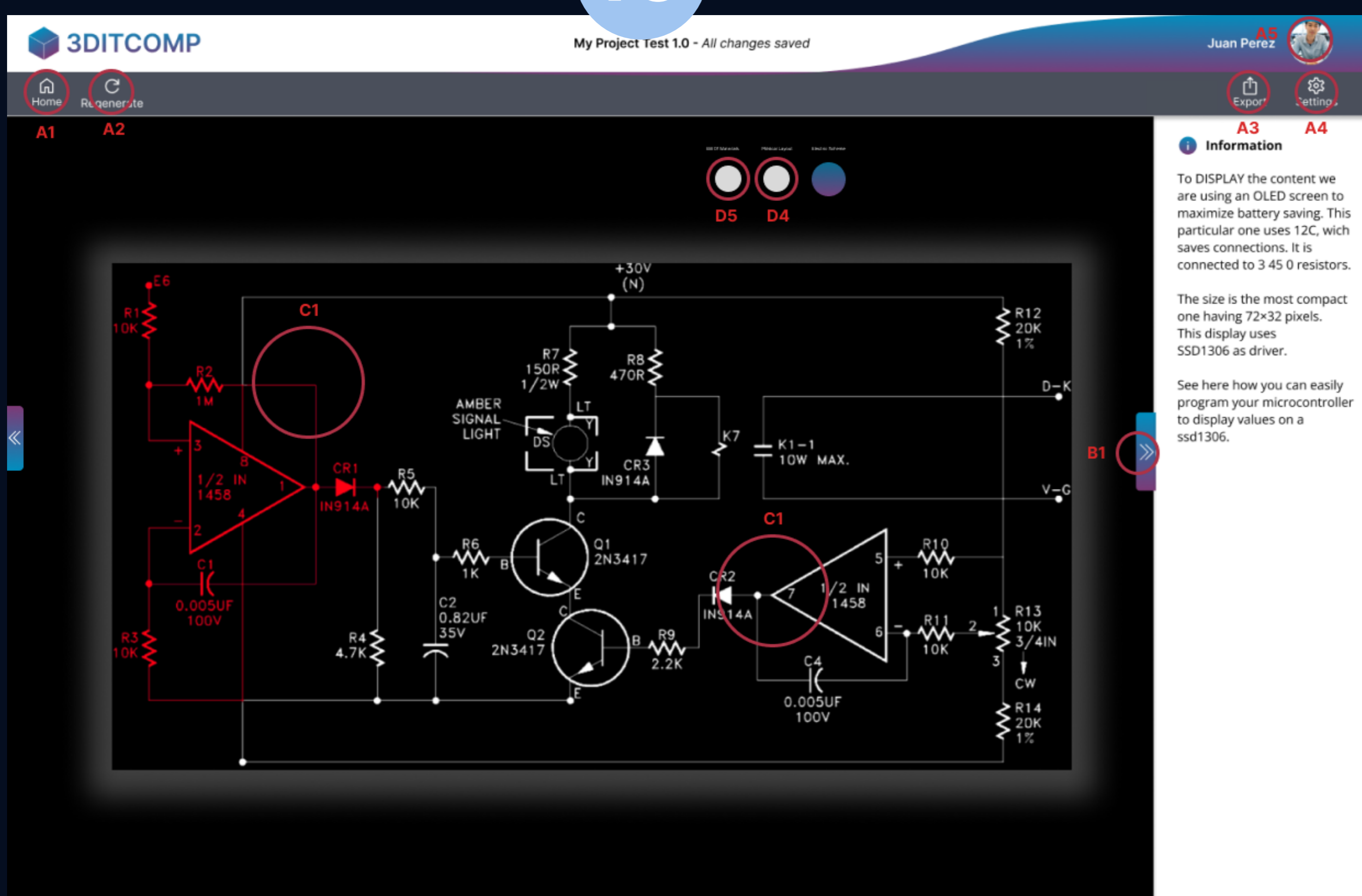
Phisical Layout page - Alternatives selection

9



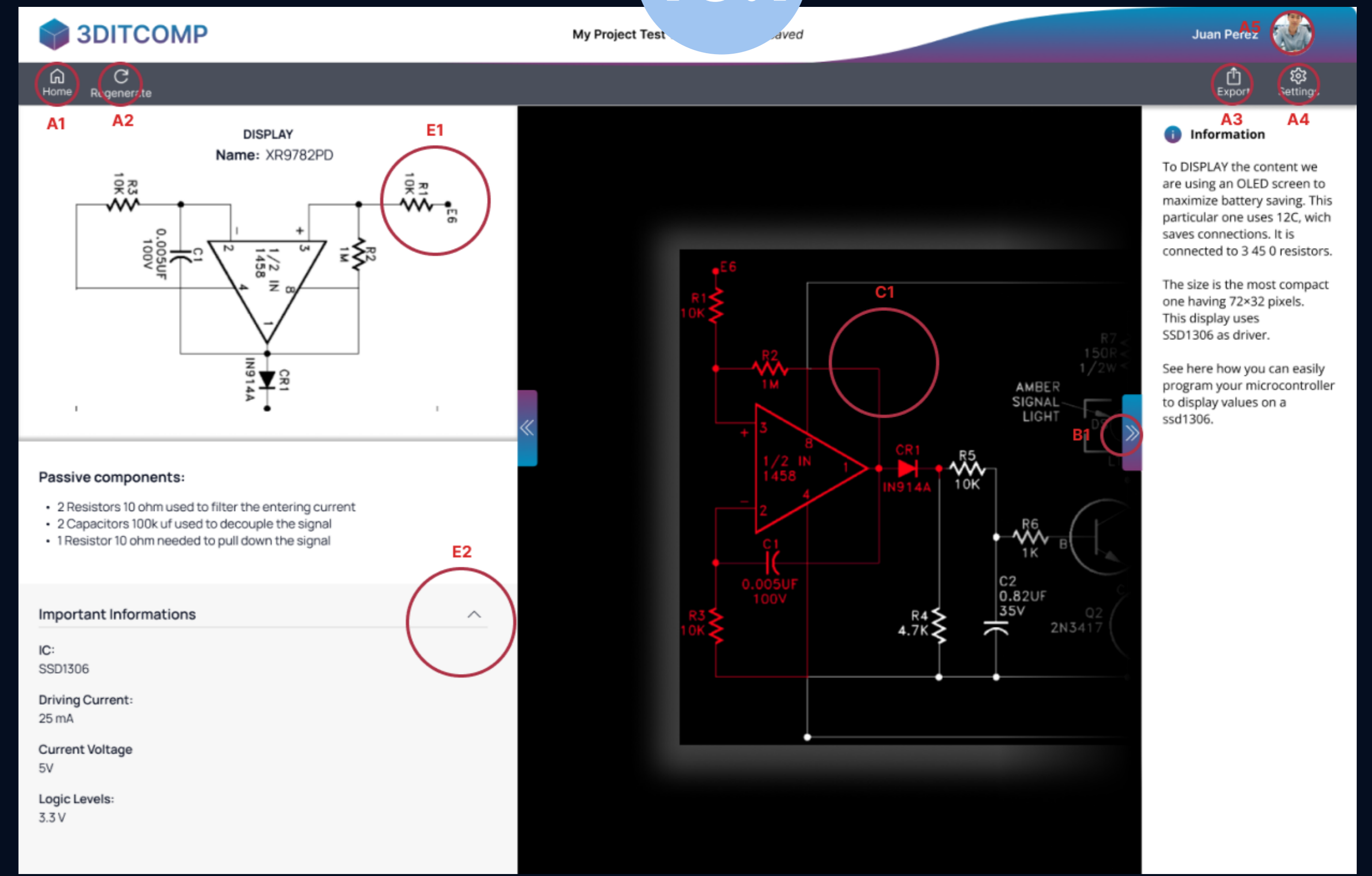
Bill Of Materials page

10



Electrical Circuit Page

10.1

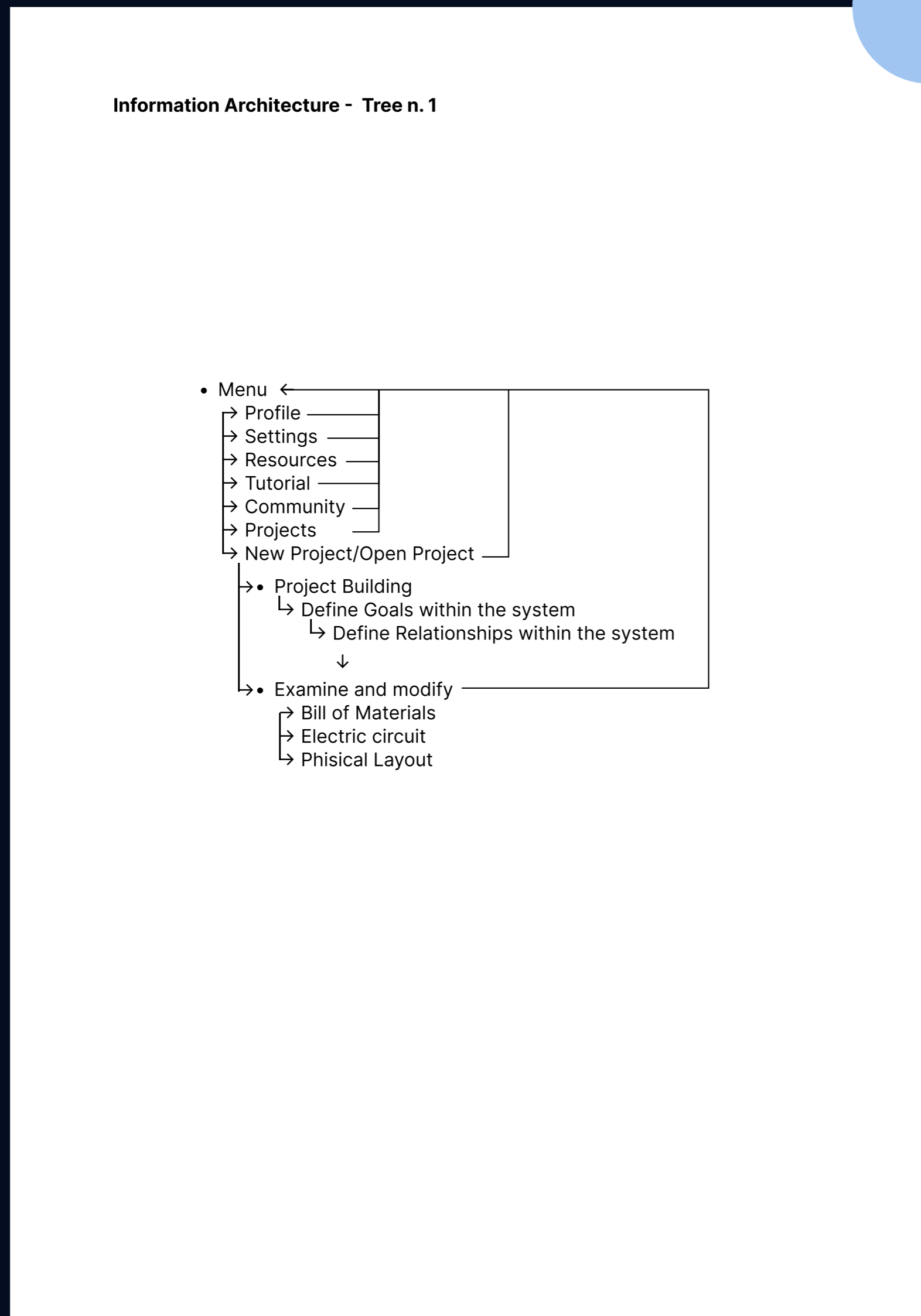


Electrical Circuit Page

Table 5 - Information Architecture

Figure 1

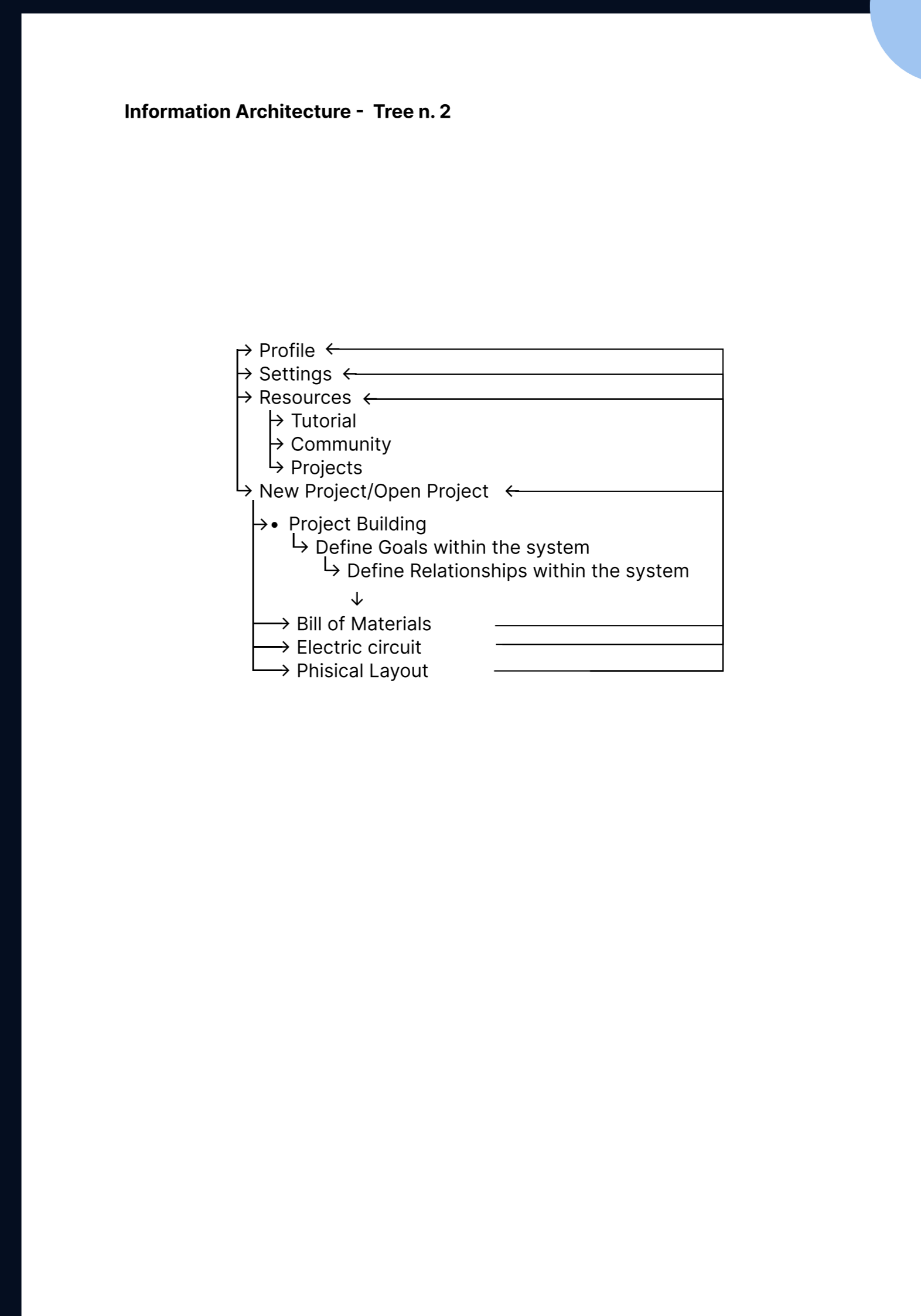
1



First Information Architecture tree developed

Figure 2

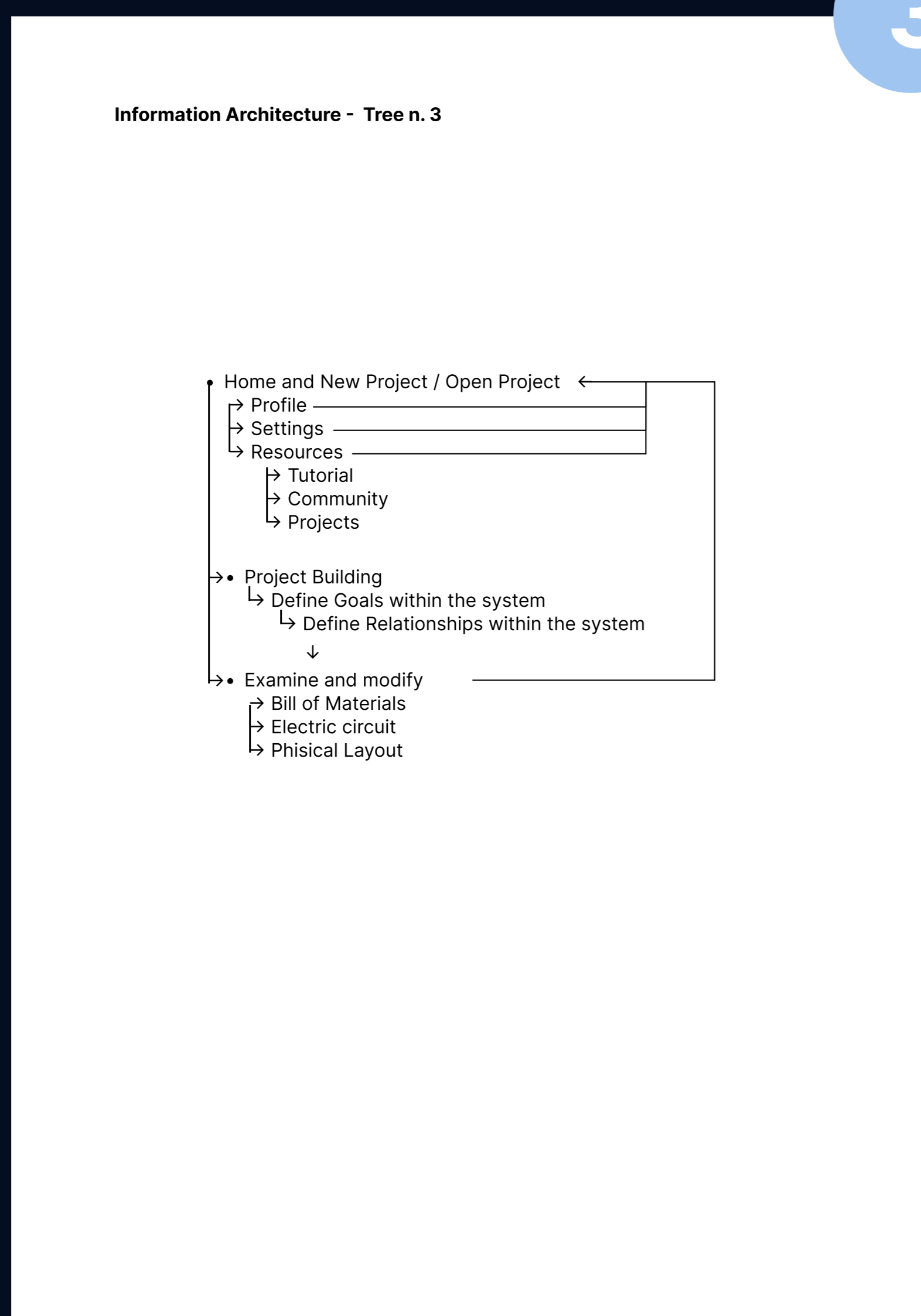
2



Second Information Architecture tree developed

Figure 3

3



Third information architecture tree developed

Figure 4

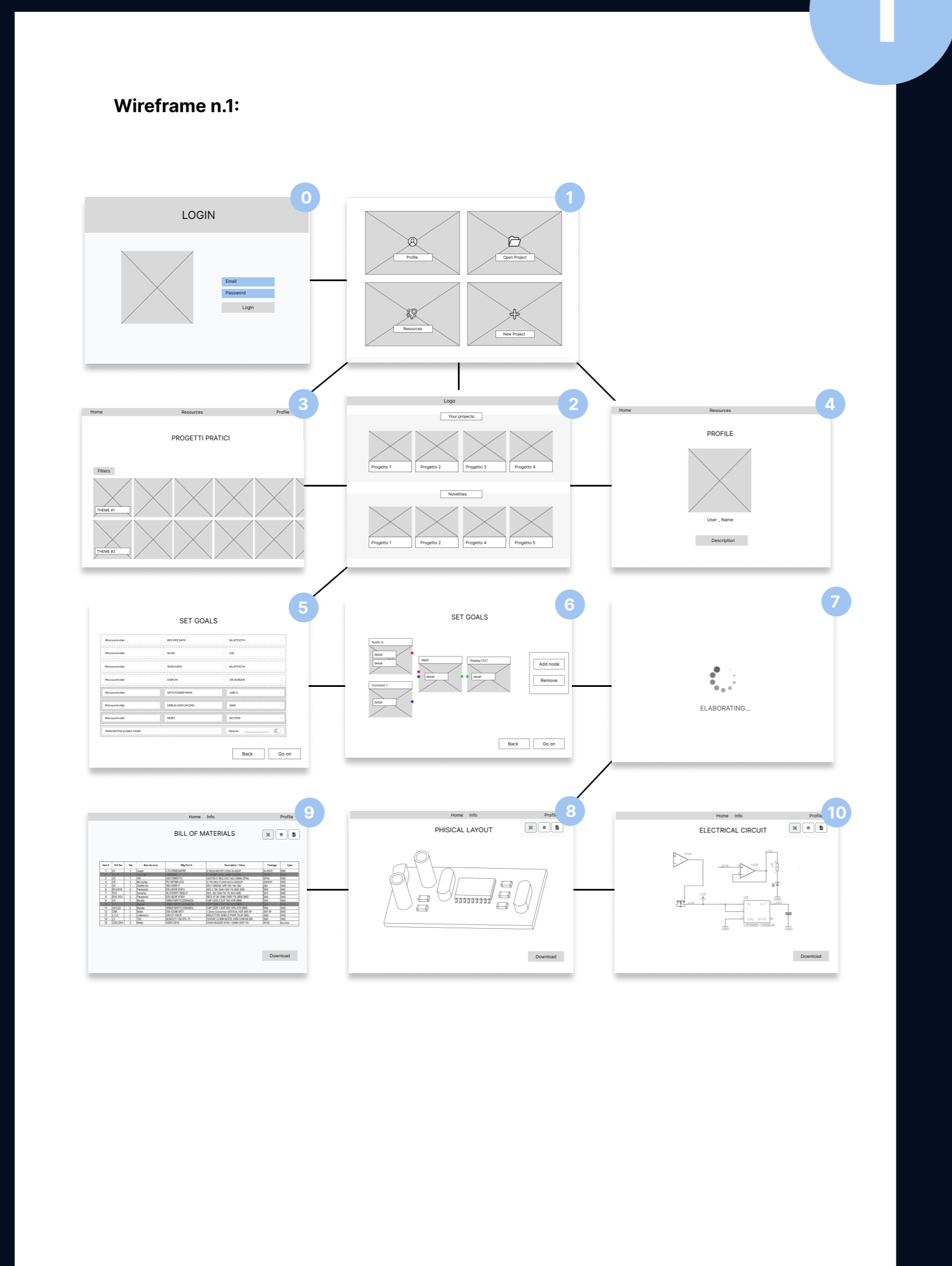
3



Tree testing results

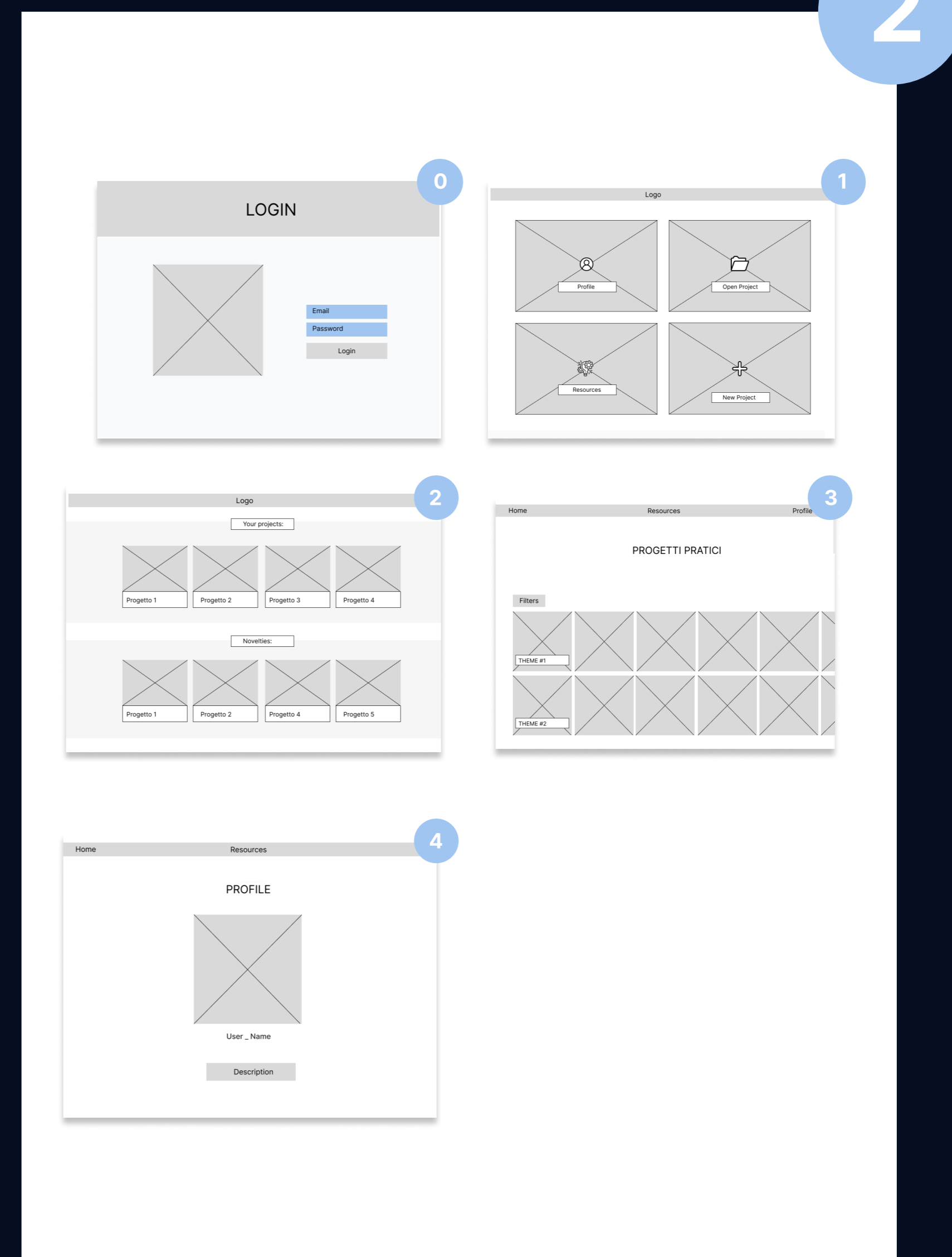
Table 6 - First Wireframe

Figure 1



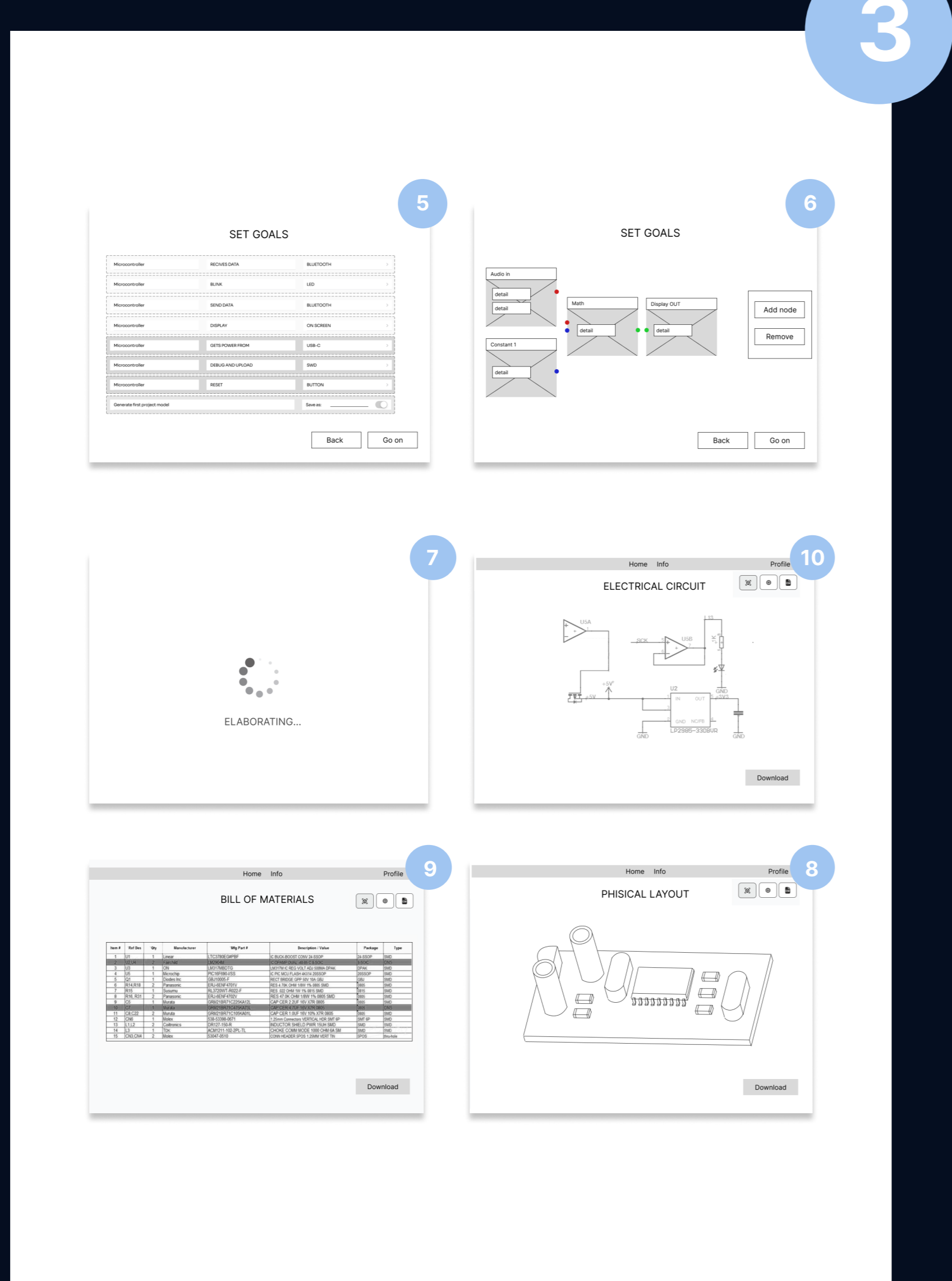
First wireframe

Figure 2



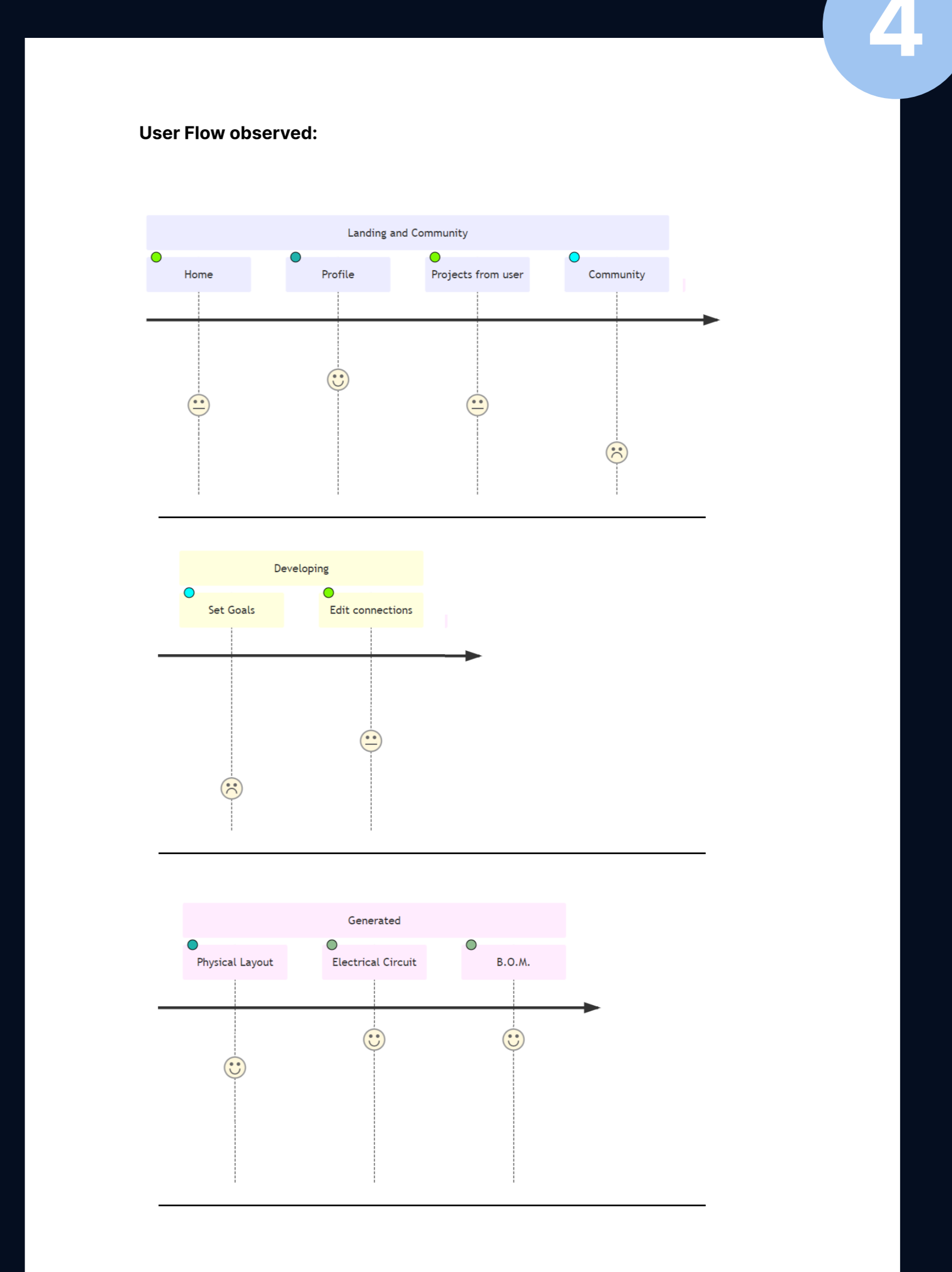
First wireframe detail

Figure 3



First wireframe detail

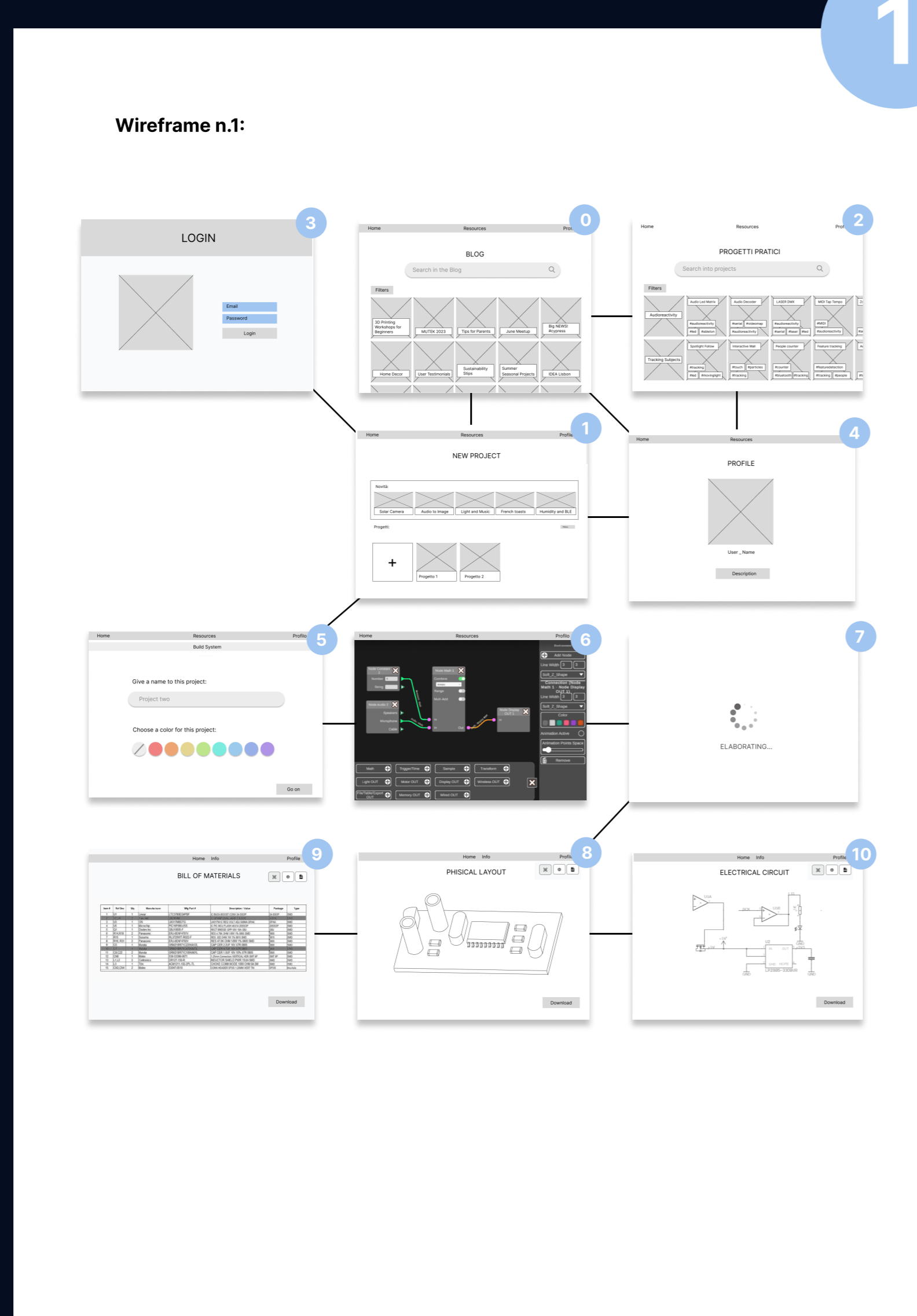
Figure 4



User Flow from first Wireframe

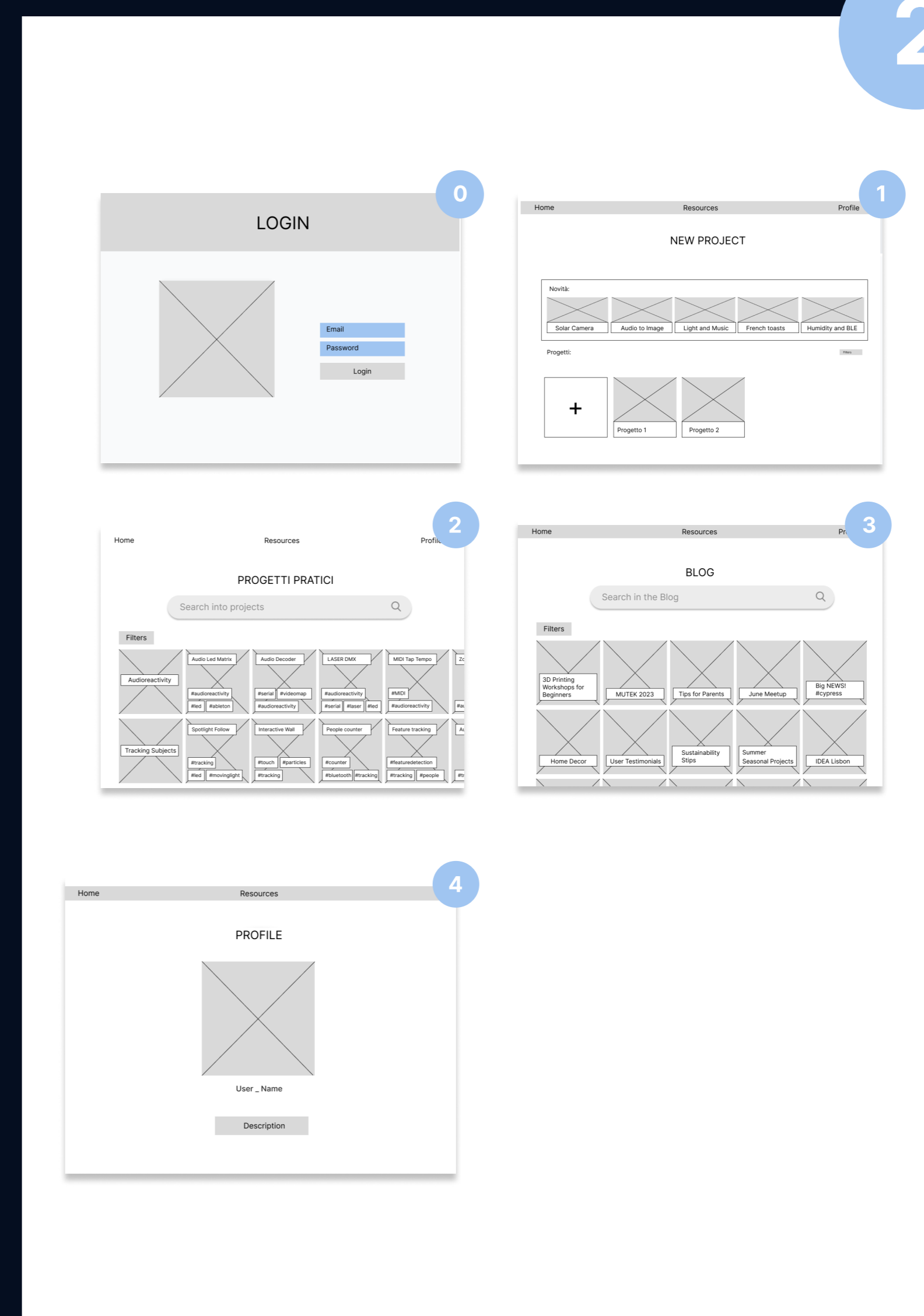
Table 7 - Second Wireframe

Figure 1



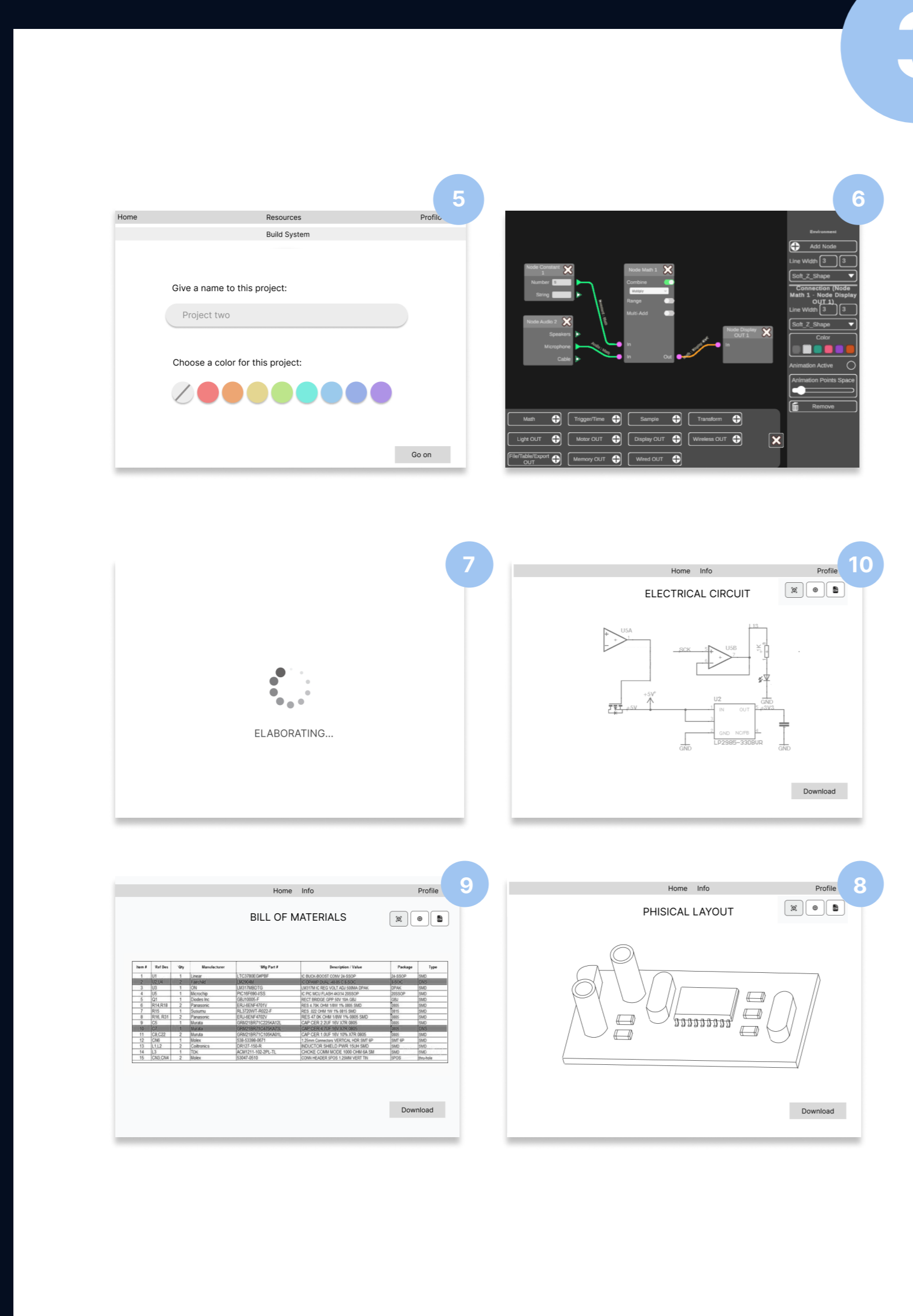
Second wireframe

Figure 2



Second wireframe detail

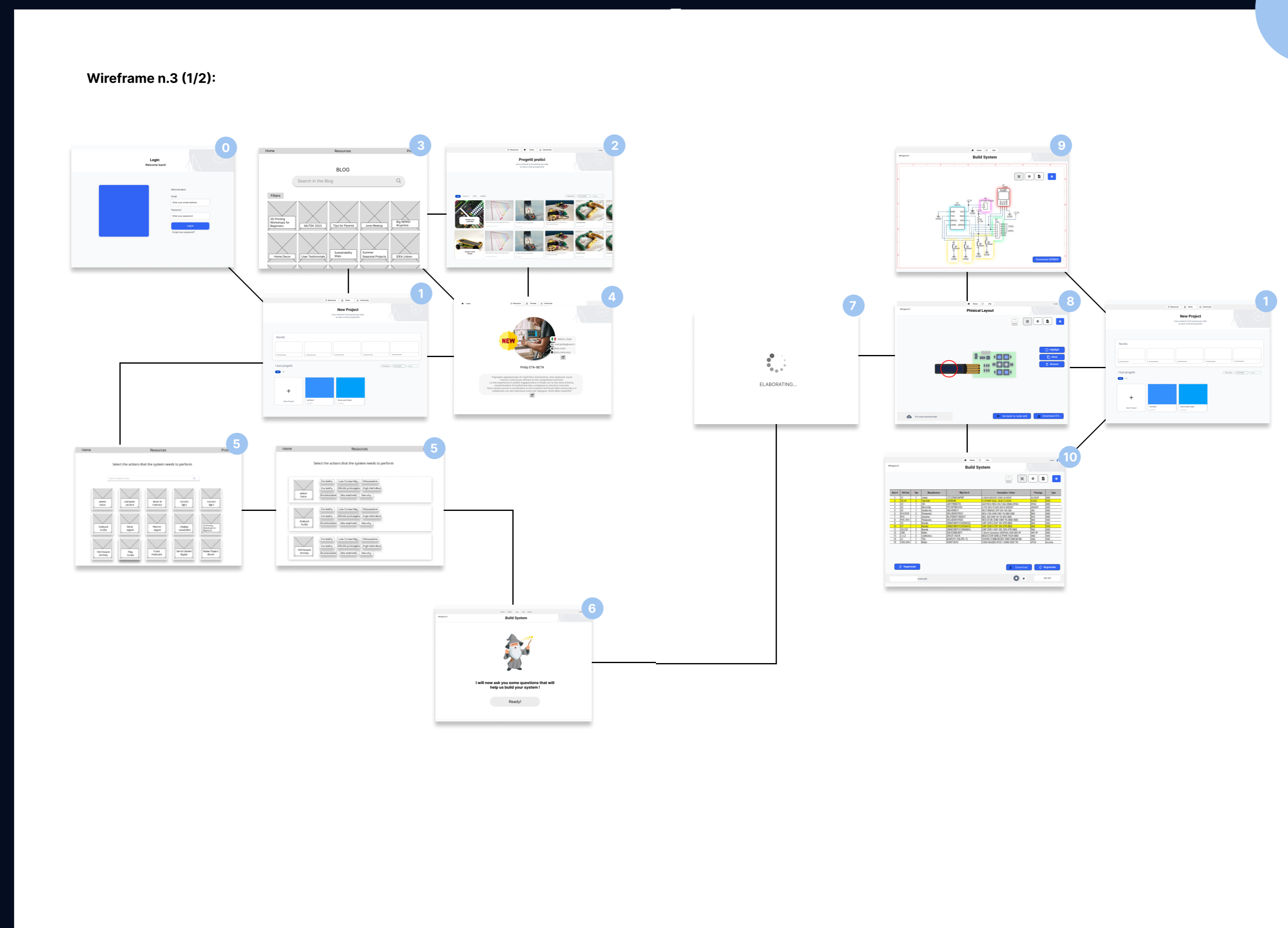
Figure 3



Second wireframe detail

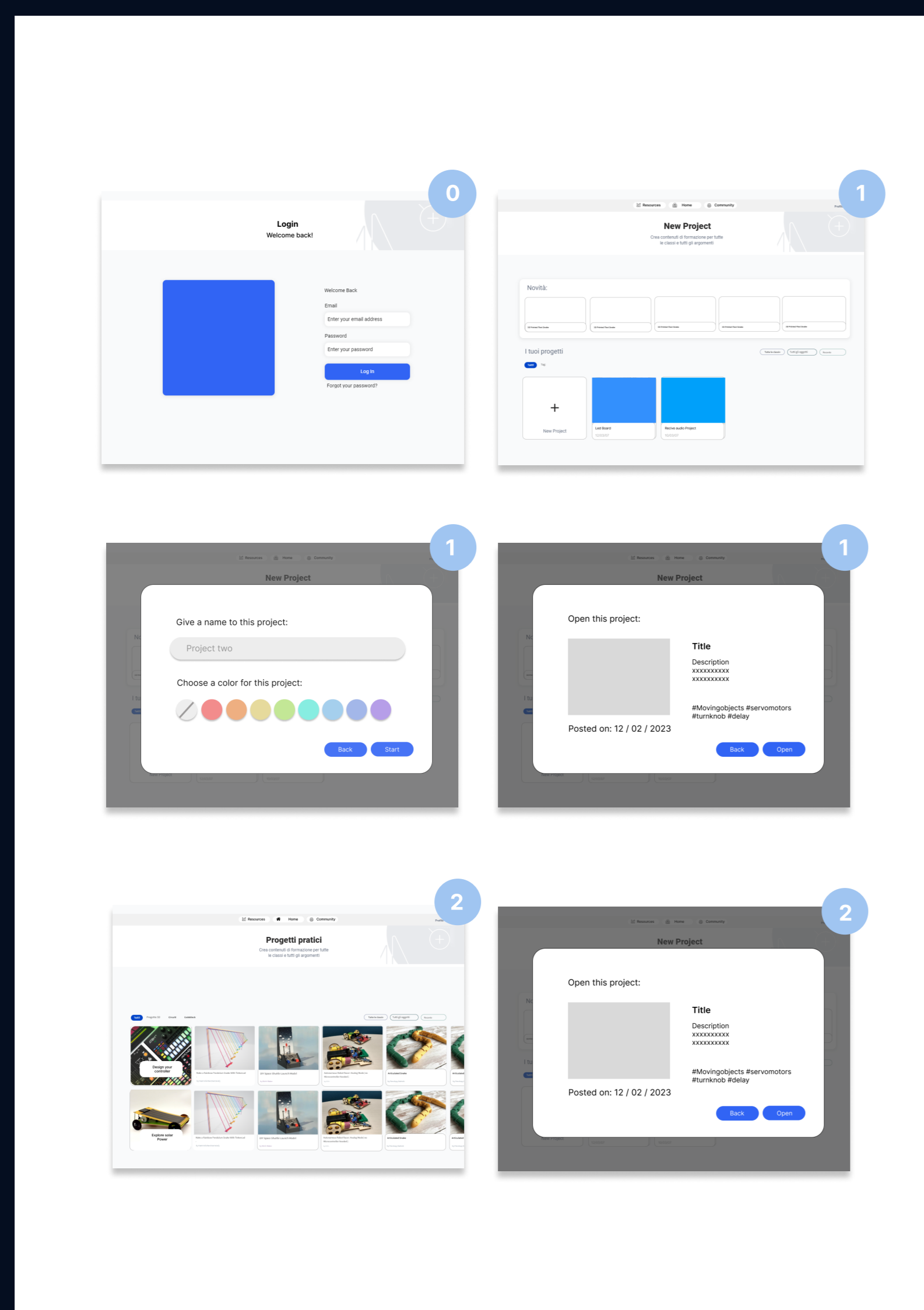
Table 7 - Second Wireframe

Figure 1



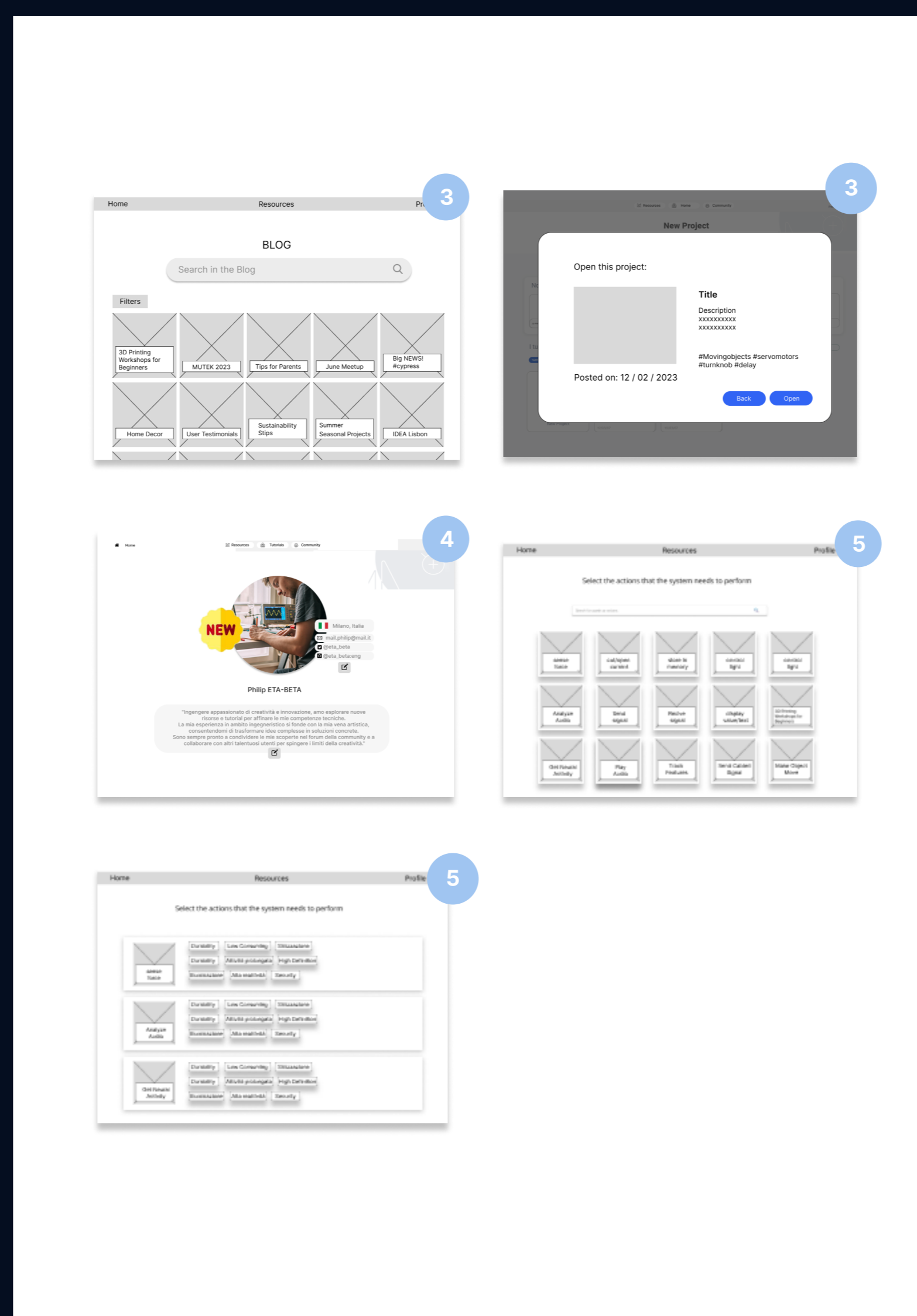
Third wireframe

Figure 2



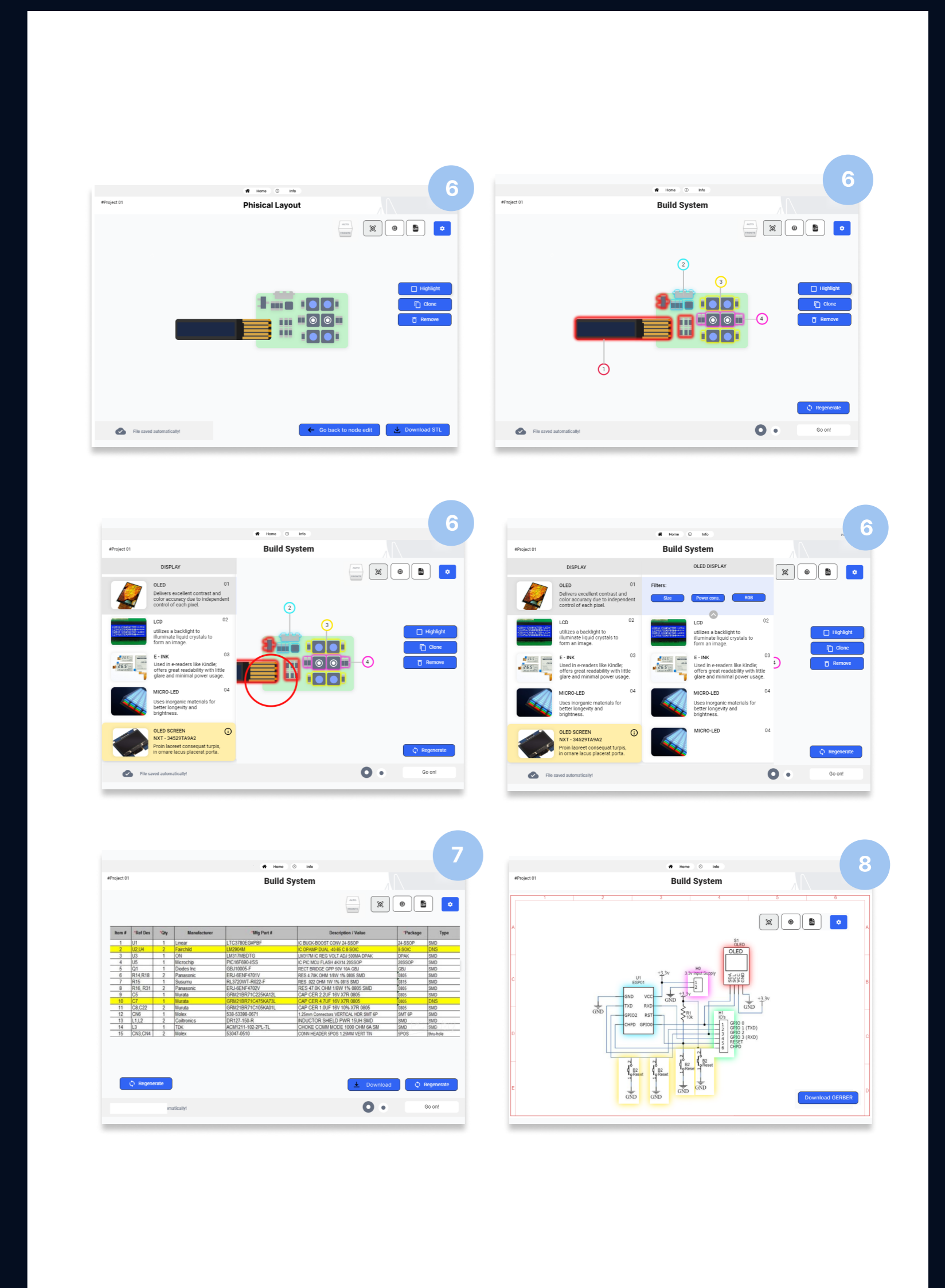
Third wireframe detail

Figure 3



Third wireframe detail

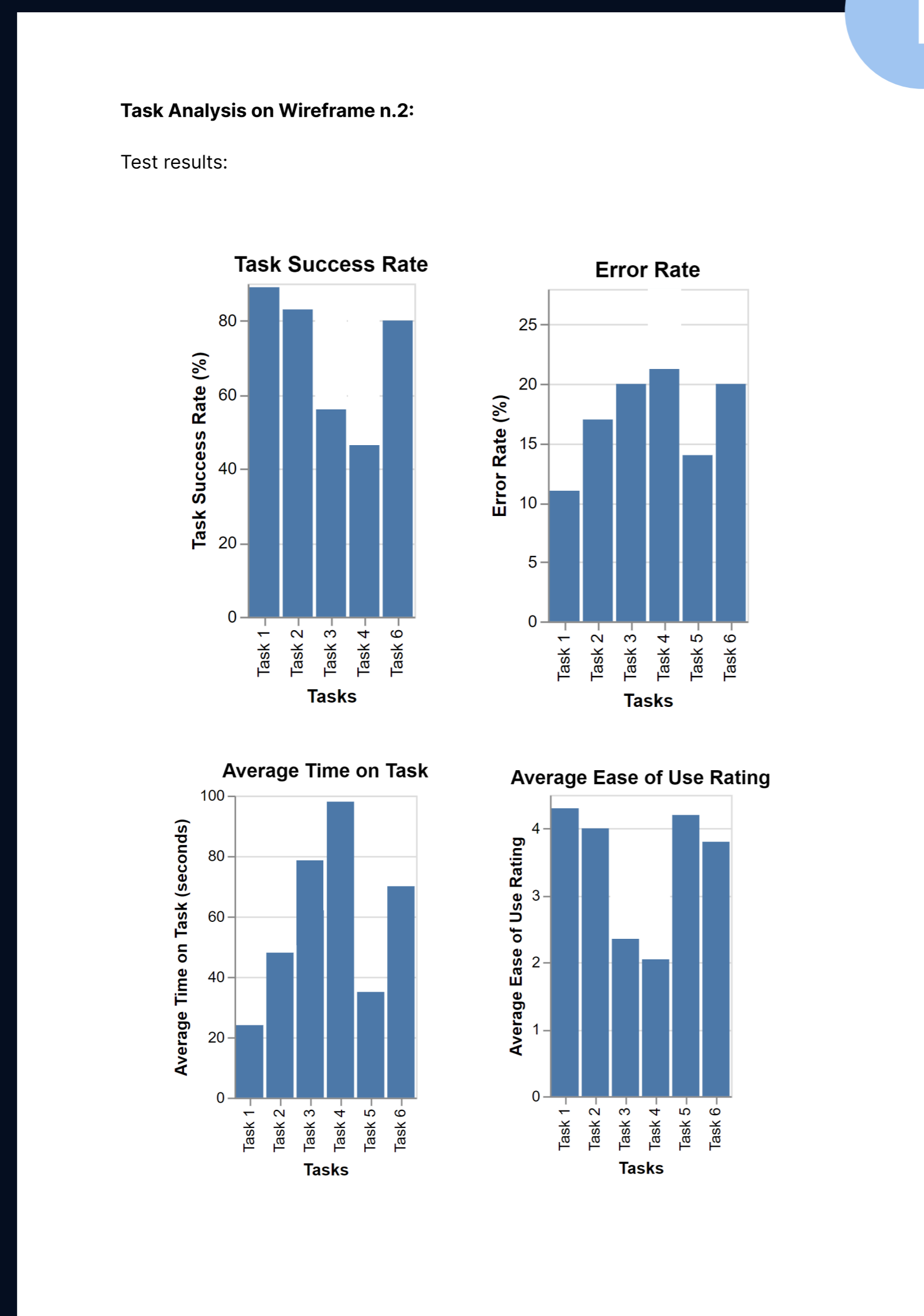
Figure 4



Third wireframe detail

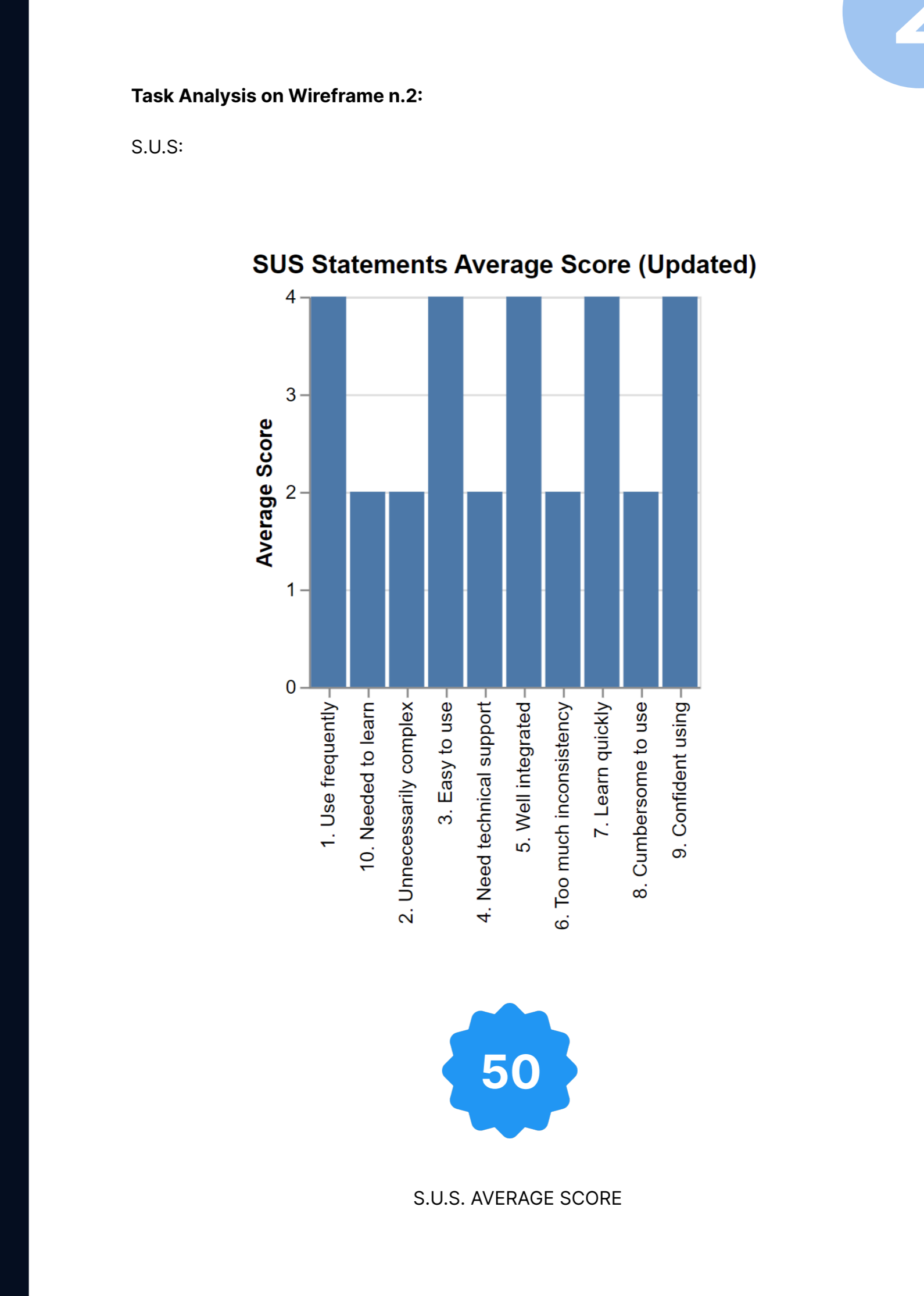
Table 9 - Wireframe testing

Figure 1



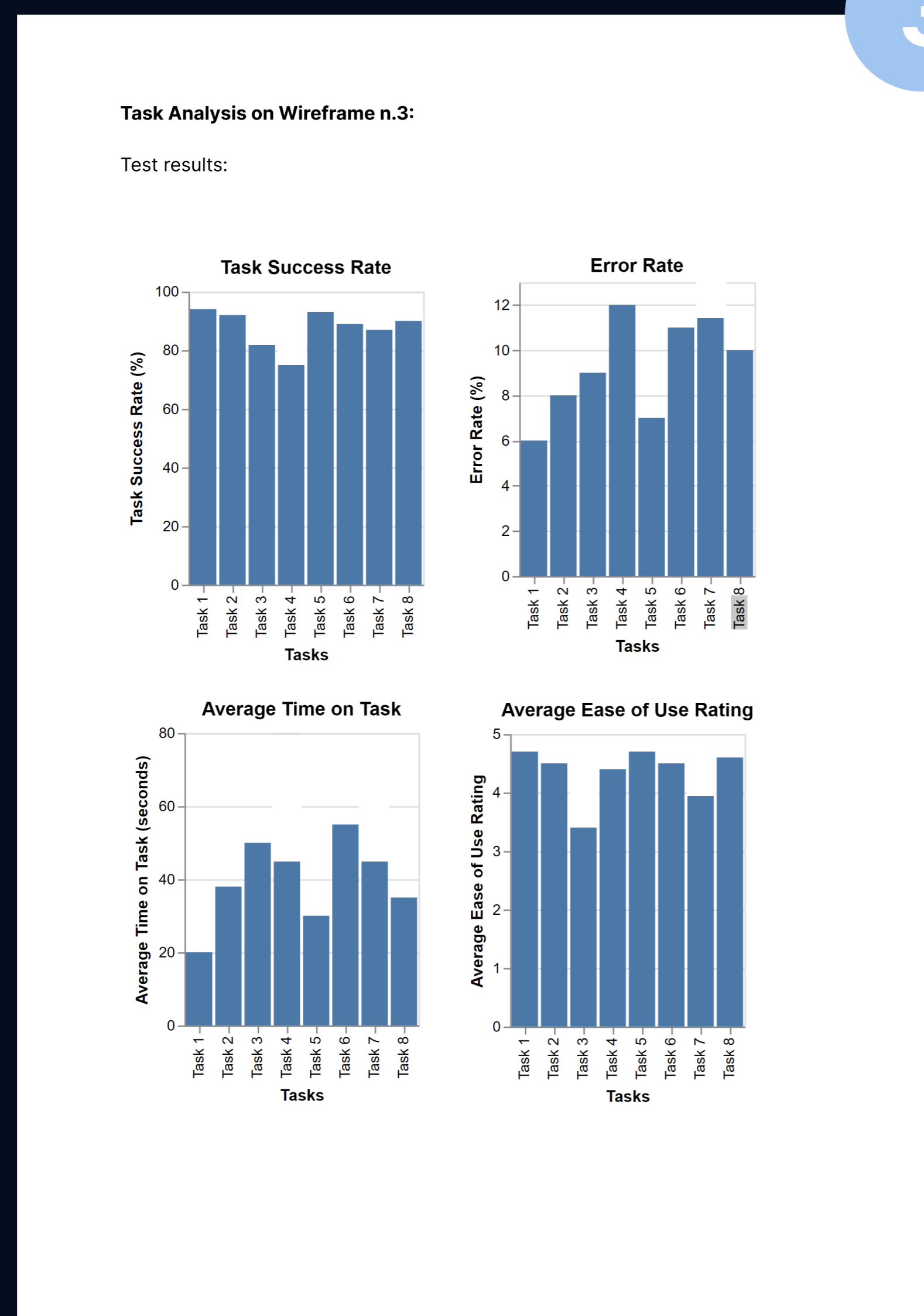
Second wireframe task analysis results

Figure 2



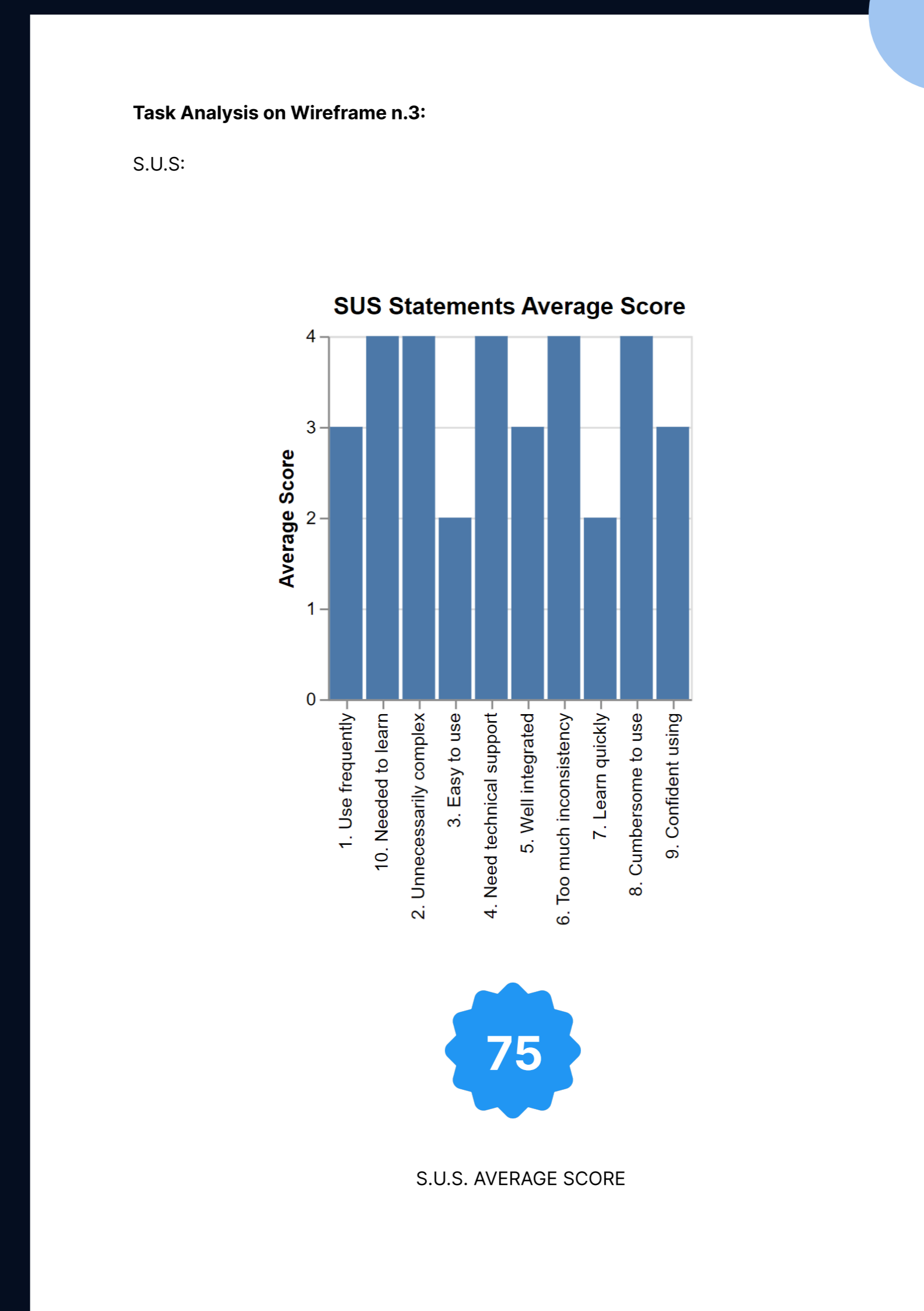
Second wireframe S.U.S. Results

3



Third wireframe task analysis results

4

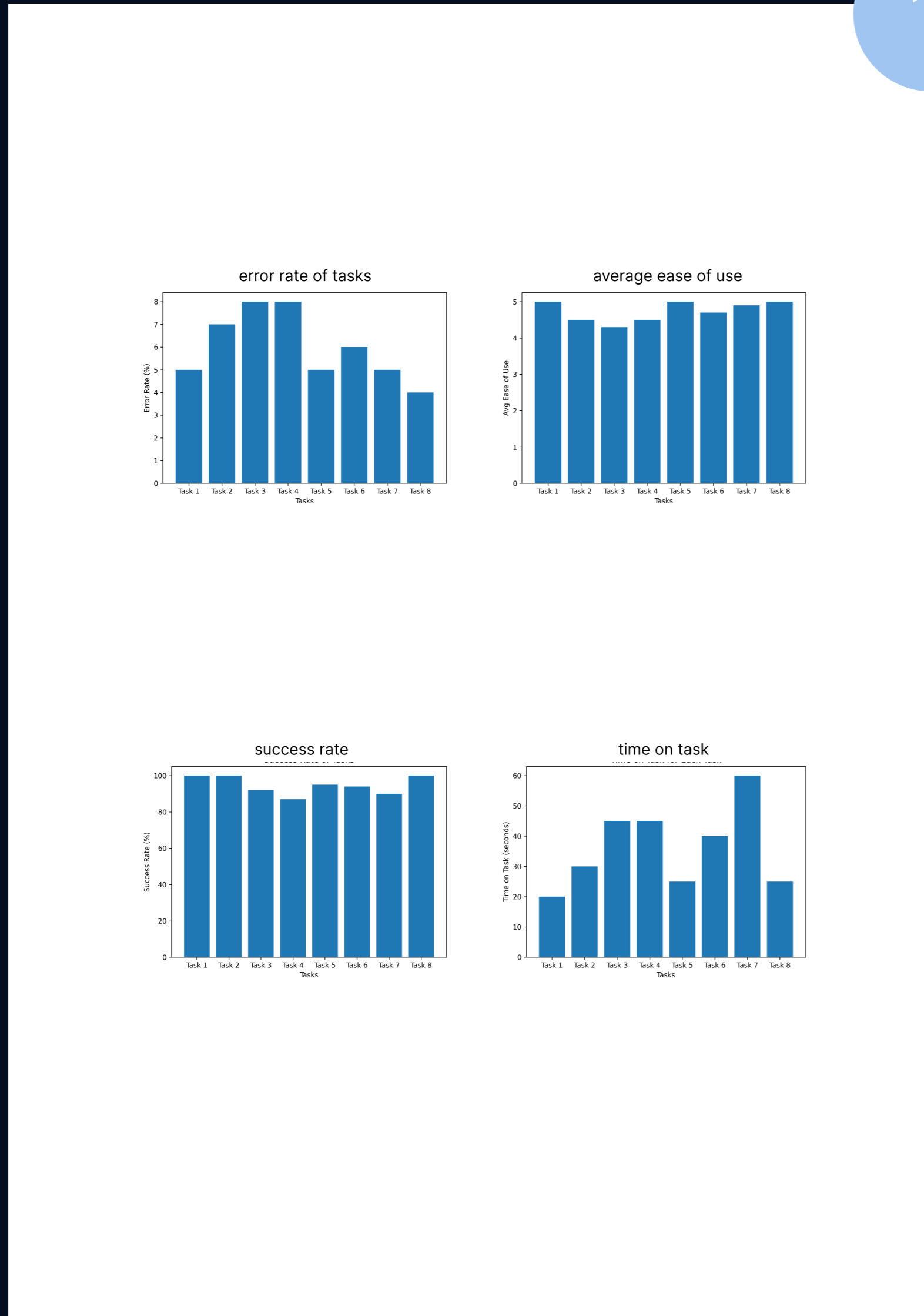


Third wireframe S.U.S. Results

Table 10 - Final interface testings (1/2)

Figure 1

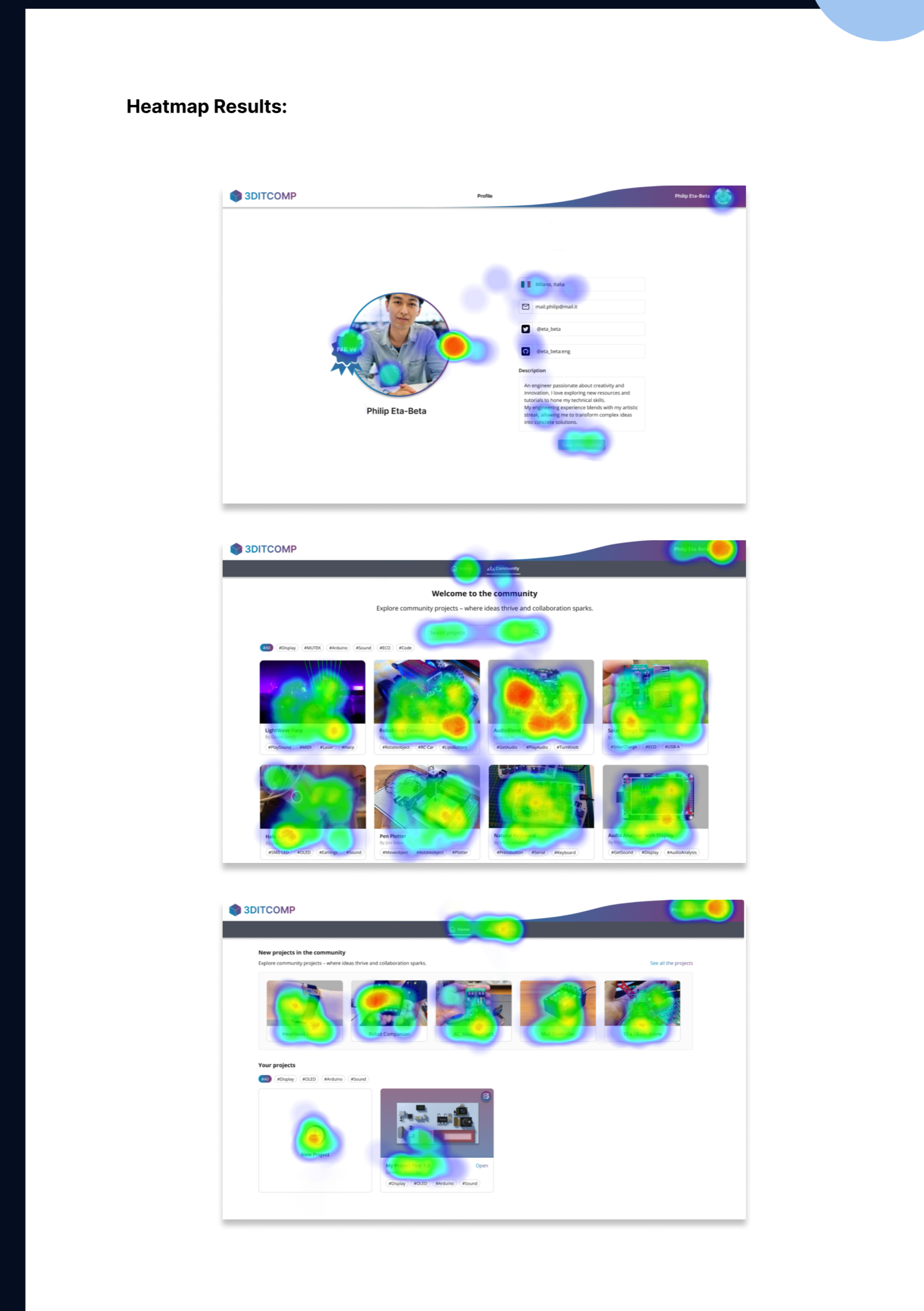
1



Results from task Analysis - Final interface

Figure 2

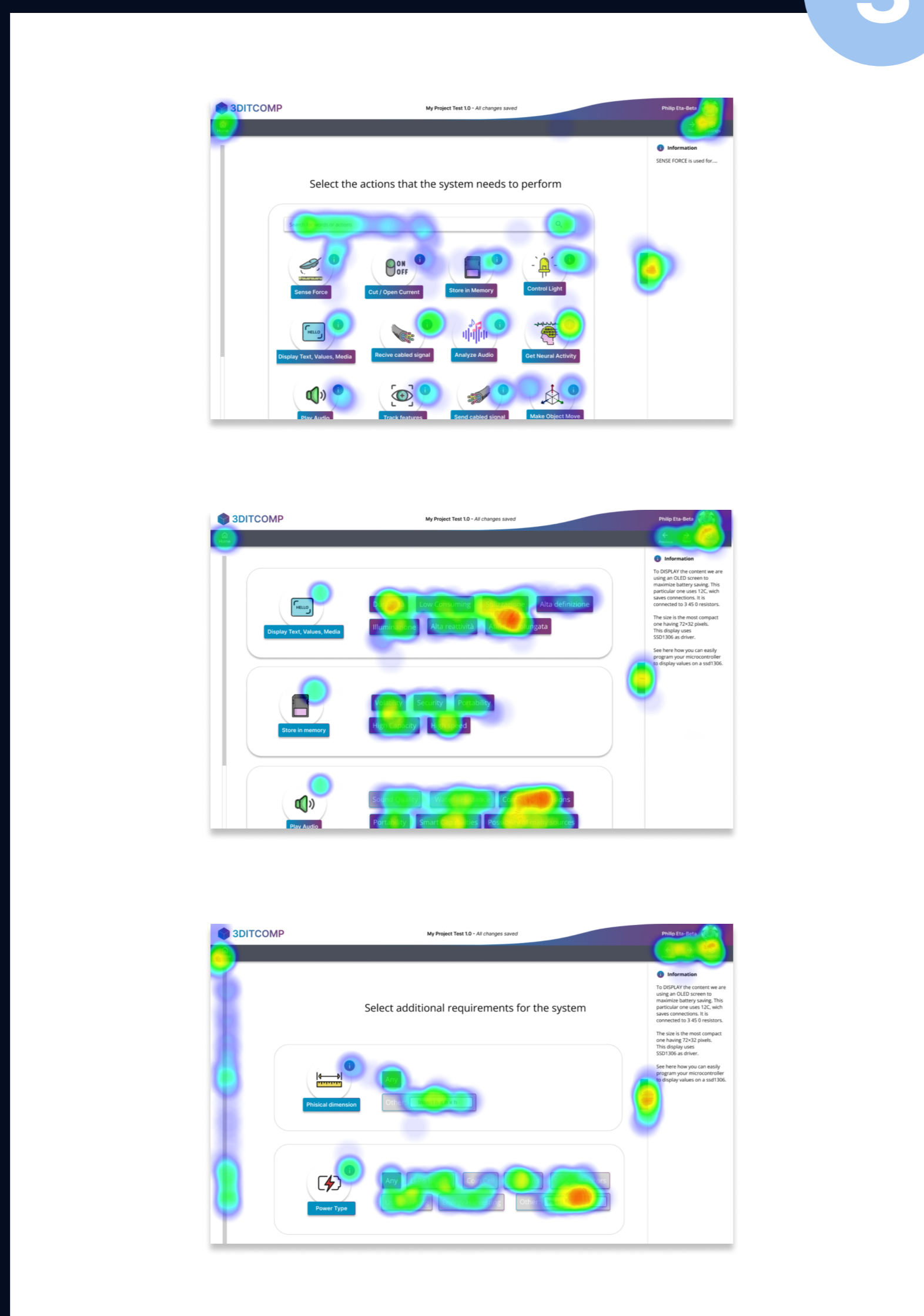
2



Results from Heatmaps - Final interface

Figure 2

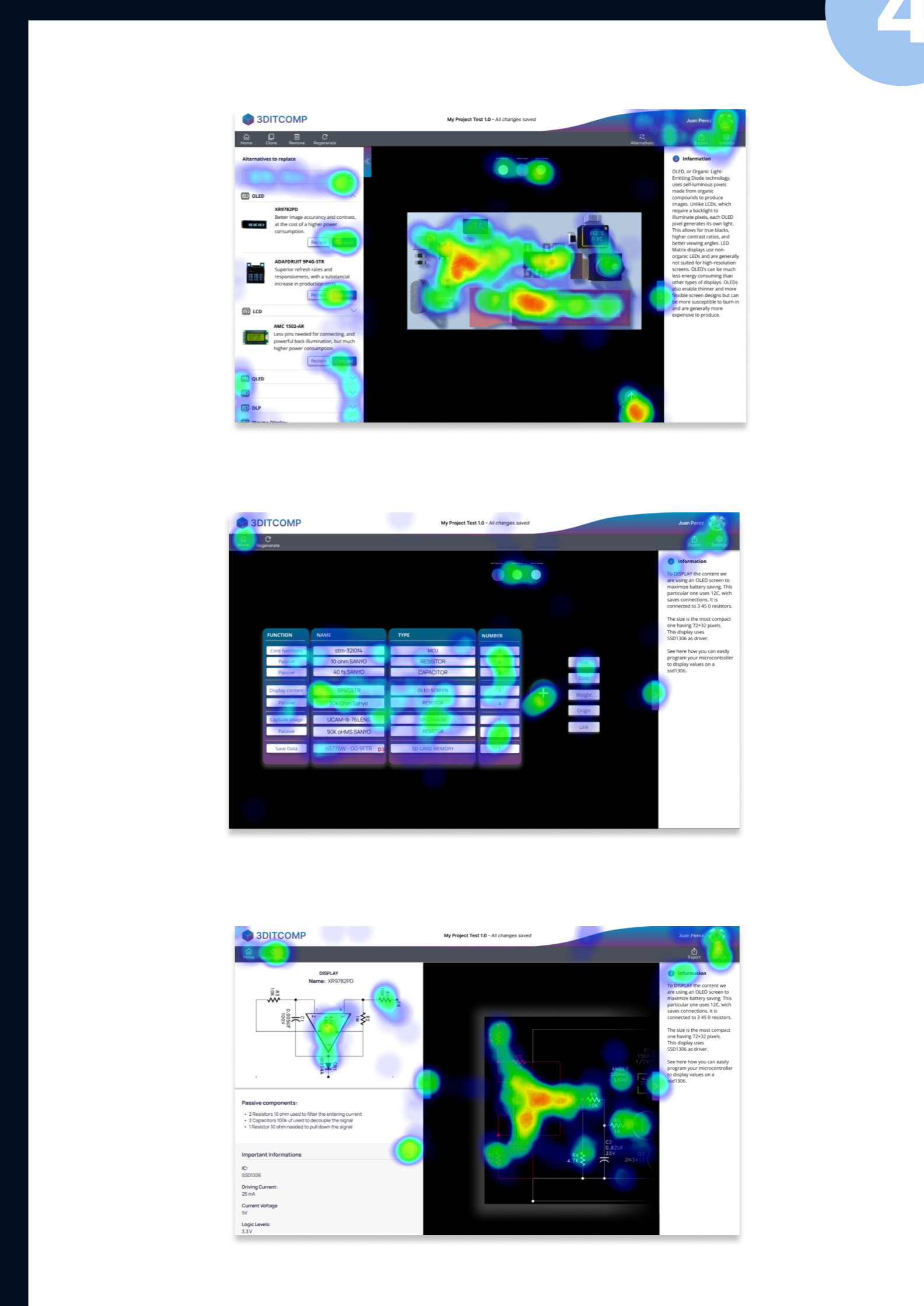
3



Results from Heatmaps - Final interface

Figure 2

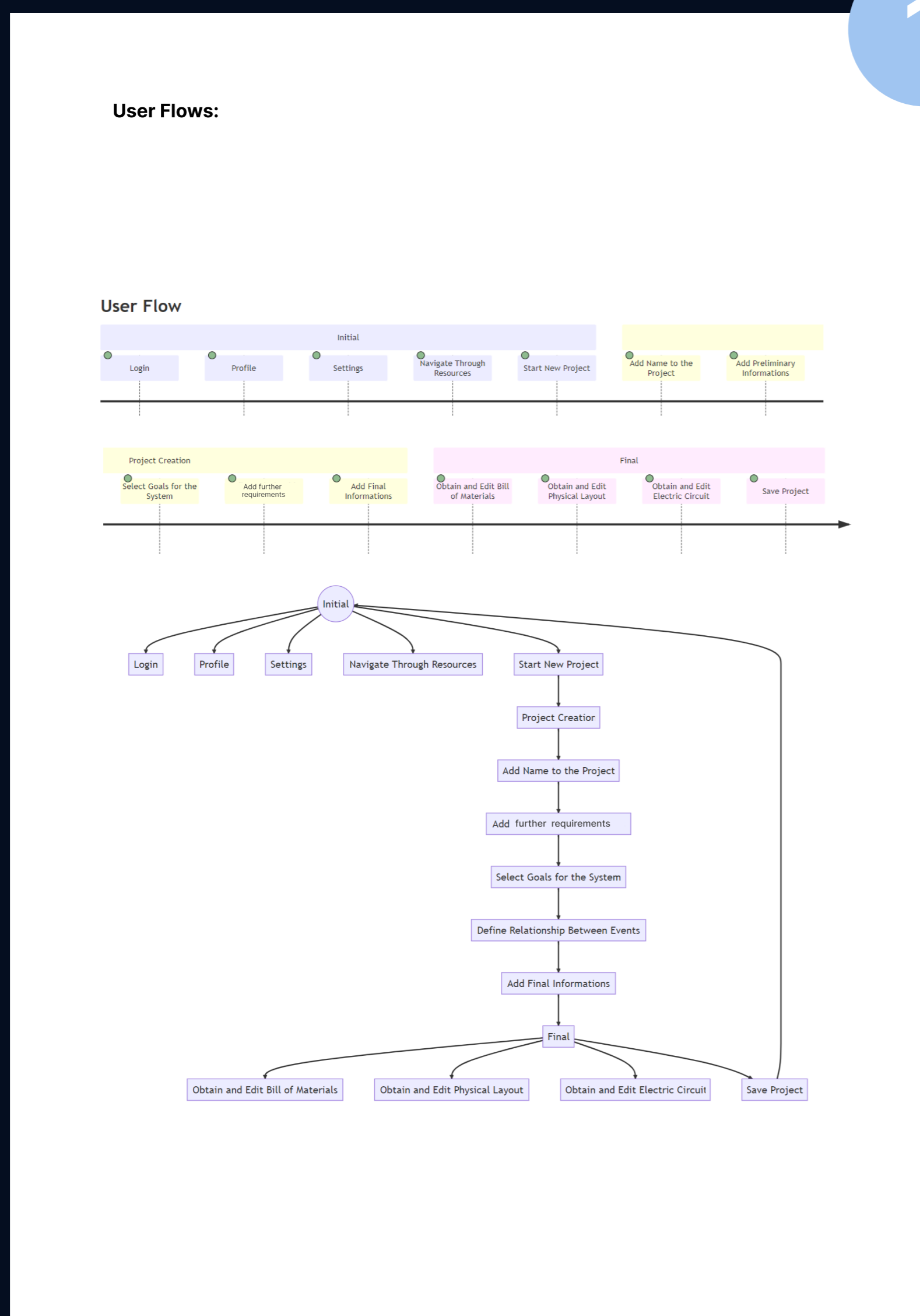
4



Results from Heatmaps - Final interface

Table 11 - Final interface testings (1/2)

Figure 1



Results from task Analysis - Final interface

Figure 2

The table summarizes the problems identified during the research phase, categorized into five main areas:

- process analysis**
 - Only component method is commonly used, but comes with many cons
 - other methodologies offer valuable alternatives undiscovered
 - process is rigid and expensive
 - errors must be avoided from first phases
 - as market increases, users struggle to stay up-to-date
- Context Analysis**
 - users having different backgrounds
 - Lack of recognized educative resources , while there is a rising role of online communities.
- Hardware Solutions Analysis**
 - Adopting Arduino comes with limitations under a Design point of view.
 - Hardware modules very often don't fit the purpose of creating realistic prototype
- Software Solutions Analysis**
 - There's a Lack of a Unified, One stop Platform. The users constantly source outside platforms
 - better balancing the ease of use and the need for specialization
 - Only component method used also on the software side
- User Analysis**
 - Lack of Real-World, phisical simulation
 - Limited Guidance and often feels lost or frustrated while designing such products
 - Users are constantly in Need for External Resources for helping themselves

A circular icon with the number '2' is located in the top right corner of the table area.

Table with the resume of problems from research phase