

# AR decision support Architecture Document

## V1.1

Prepared for ICT group

Created by [Borislav Gramatikov]

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## Contributors

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## Revision History

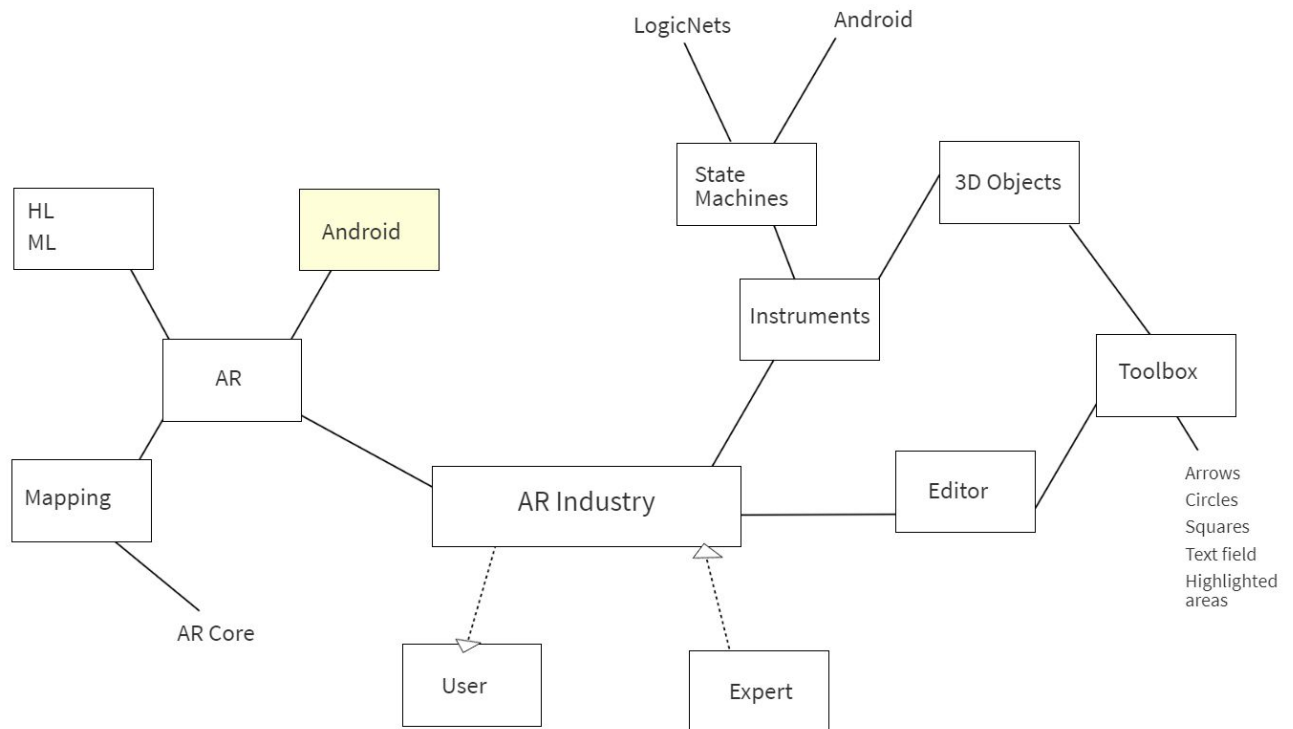
Version	Date	Name	Description
v1.0	09/Aug/2019	Samer Boules	<ol style="list-style-type: none"><li>1. Add Overview section</li><li>2. Add AR platform options</li><li>3. Add feature list</li><li>4. Add function blocks</li></ol>
v1.1	16/Sept/2019	Borislav Gramatikov	

# Overviewengi

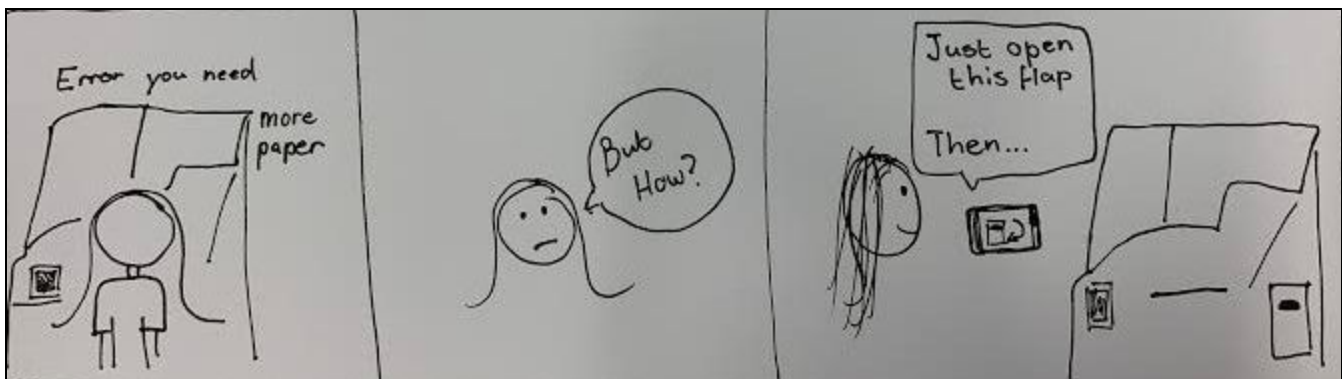
## Project goal

The goal is to create an app where a user can create their own workflow or process which in return will be able to be used by others. The function of the app can also be defined as an AR representation of an algorithm, a step-by-step approach to solving a task.

## Schematic

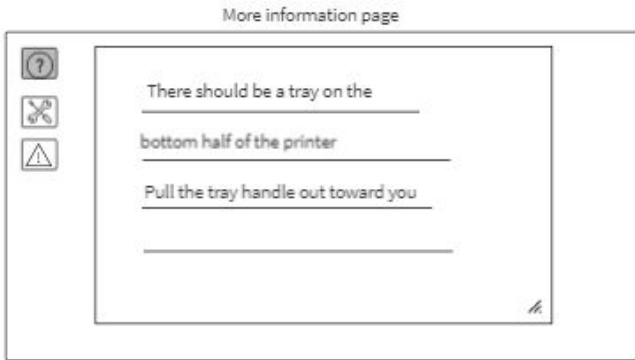
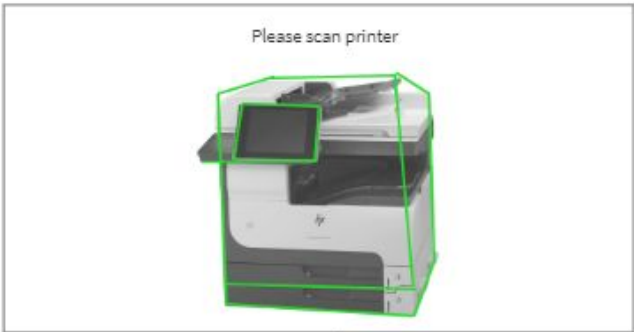
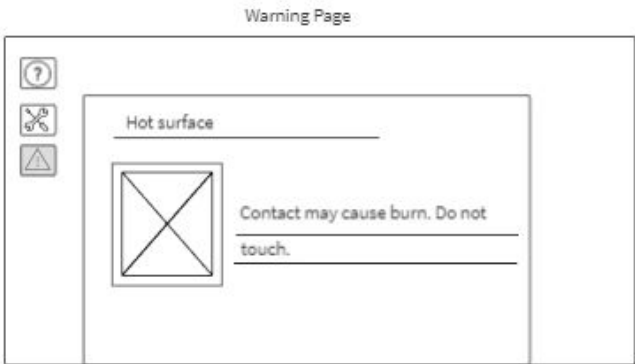
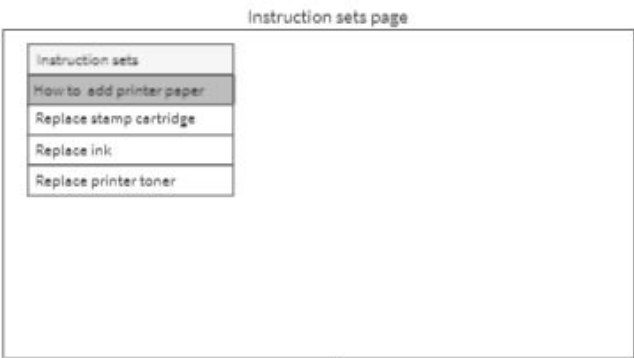
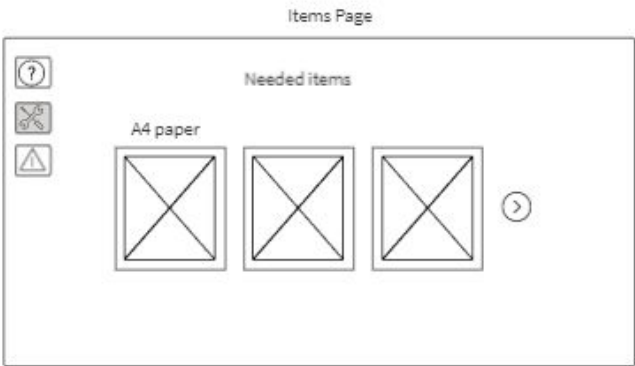


## Storyboards

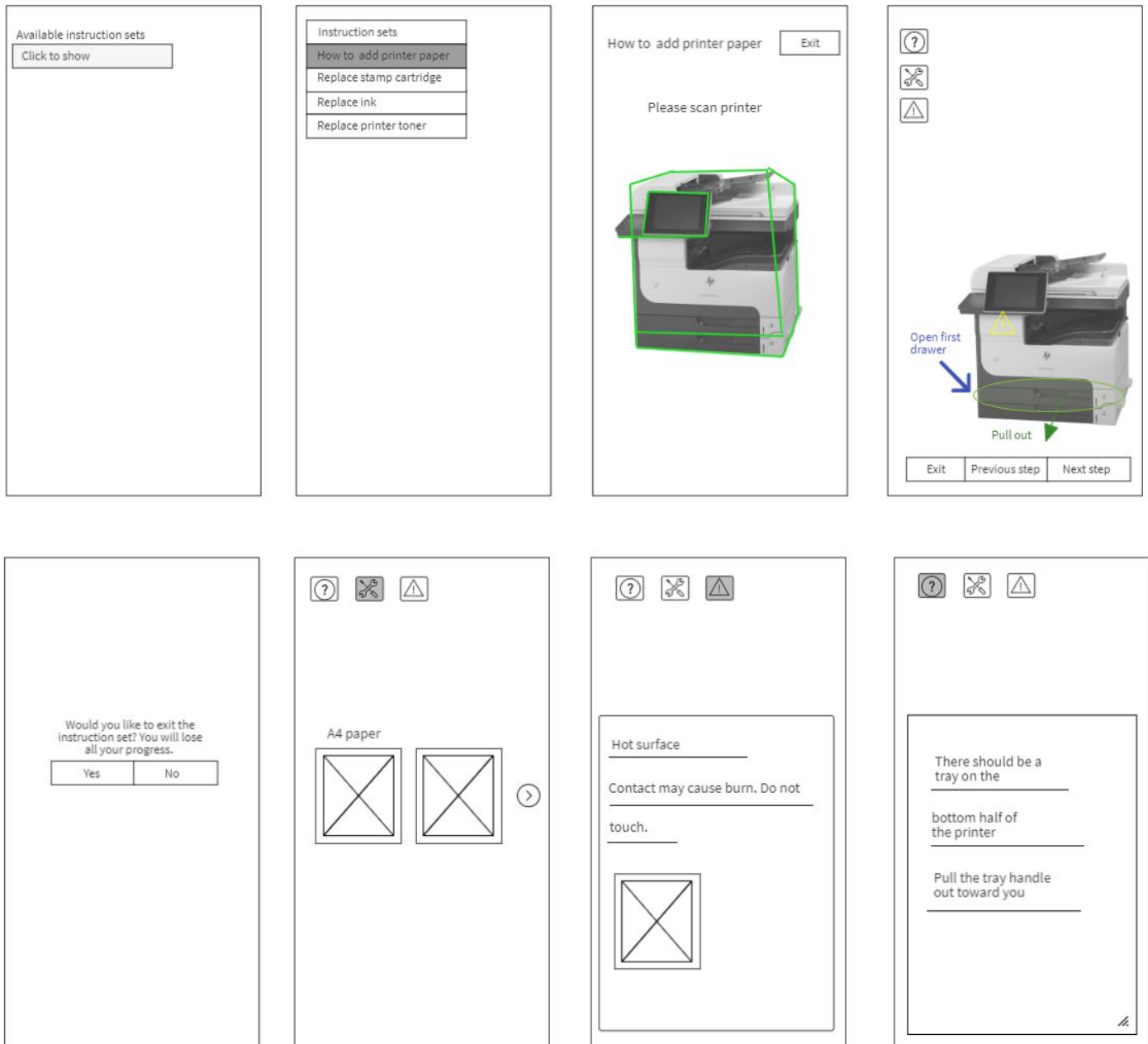


## Wireframes

Horizontal view



## Vertical view



## General information

For a more close up view of the wireframes. Please look at **Wireframes.png**

Chosen wireframe tool for this project: Mock flow.

Website: <https://www.mockflow.com>

## Wireframe guideline

### Home page

From here the user is able to show the Instruction sets page.

### Instructions page

When in the instructions sets page we can see what instruction sets are available to use at this point in time.

### More Information page

When the information button is clicked. There will be a popup showing general information about what is being presented on the screen.

### Items page

Shows what items are needed to complete the selected instruction set

### Warning page

Shows what the dangers of the operation could lead to and what to avoid while doing the instruction.

## Use-cases

### Use-Case Specifications

#### *Use-Case Specification: 1 - The instructor creates an account*

<b>Use Case</b>	<b>1 &amp; The user scans an object.</b>	<b>By</b>	Borislav 20/09/2019
<b>Timeframe</b>	usually once, approx. under 30 seconds	<b>Relevance</b>	High
<b>Actors</b>	<b>User</b>		
<b>Description</b>	In order for the system to be able to line up the geometry of the instruction set there must be a reference point. Which the user.. .		



<b>Pre-conditions</b>	<b>User must have picked a scenario.</b>	<b>Post-conditions</b>	<b>The scenario must commence afterwards.</b>
<b>Scenario</b>	<ol style="list-style-type: none"> <li>1. The system displays an outline of an object.</li> <li>2. The user must align the outline with the real world camera.</li> <li>3. The system commences with <b>scenario</b></li> </ol>		
<b>Variations</b>	3.1 The instructor changes the personal details before confirmation		
<b>Requirements</b>	<ol style="list-style-type: none"> <li>1. Internet connection</li> <li>2. User response. The system shall respond to any user input within 0.01 seconds.</li> <li>3. Update user data The system should update user data within 0.01 seconds</li> <li>4. User Errors. The system shall catch improper input from all text fields in the system.</li> <li>5. A user shall only have access to functionality that is allowed to them at a given time</li> </ol>		
<b>Notes</b>	All account elements are optional and not validated		

## SDK information

General information

Chosen SDK for this project: AR Core .

Link to research document :

[https://docs.google.com/document/d/1o8Gv1lbqm-TNfSLIFc\\_E9CSfIWNyAKbhKFDHx8c2l34/edit#](https://docs.google.com/document/d/1o8Gv1lbqm-TNfSLIFc_E9CSfIWNyAKbhKFDHx8c2l34/edit#)

