MIRROR²

demonstration

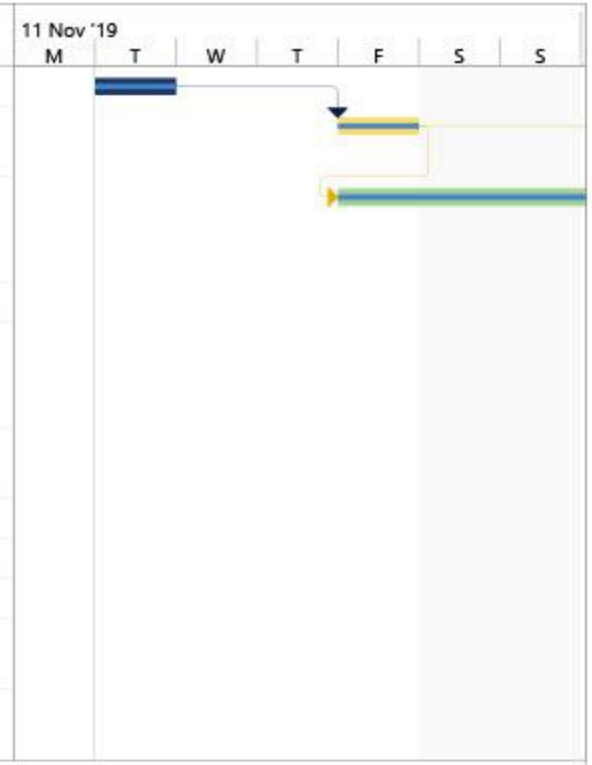
Project Ideas

smart mirror – messages on screen

interaction – voice recognition

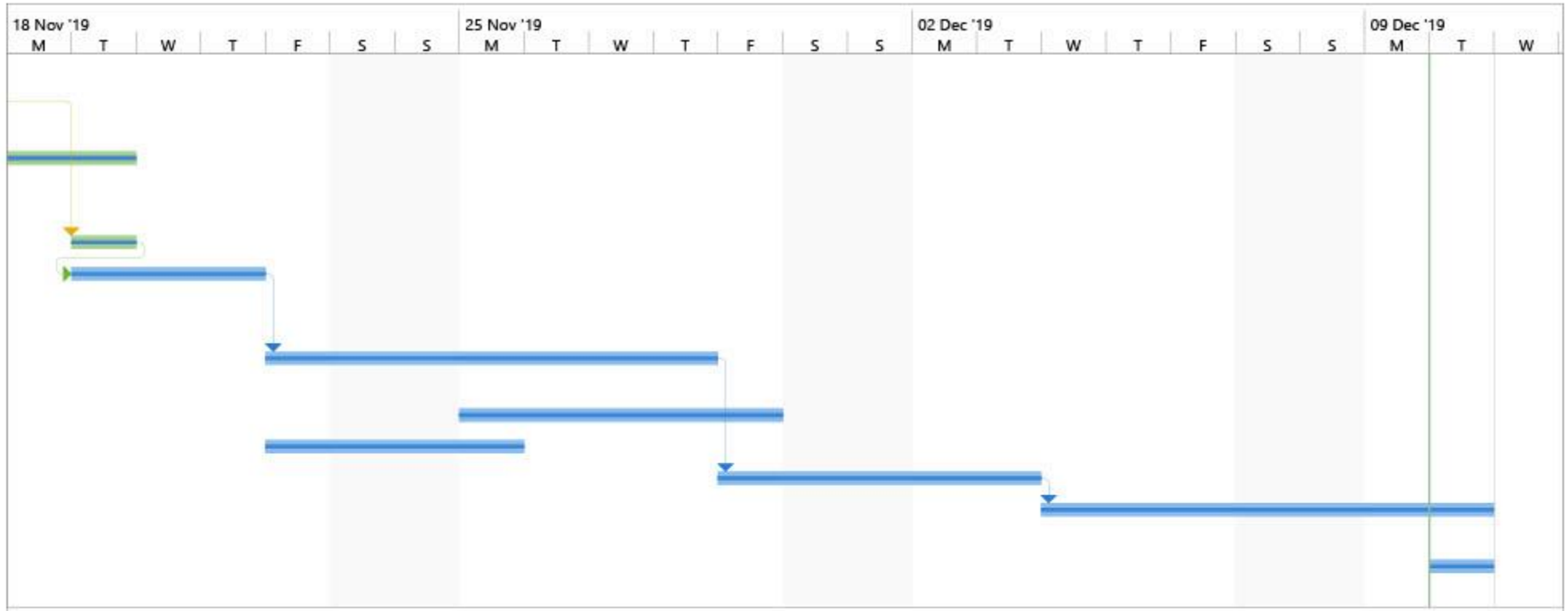
assembling – Wi-Fi connection

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Resource Names
1		Brainstorm Ideas	1 day	Tue 12/11/19	Tue 12/11/19		
2		Pick final project idea	1 day	Fri 15/11/19	Fri 15/11/19	1	
3		Decide on features function and design of Smart Mirror	3 days	Fri 15/11/19	Tue 19/11/19	2	
4		Create Lo-Fi Design	1 day	Tue 19/11/19	Tue 19/11/19	2	
5		Research Modules needed to fulfil design	3 days	Tue 19/11/19	Thu 21/11/19	4	
6		Order Modules needed	5 days	Fri 22/11/19	Thu 28/11/19	5	
7		Create Server	5 days	Mon 25/11/19	Fri 29/11/19		
8		Decide on Display	2 days	Fri 22/11/19	Mon 25/11/19		
9		Test Modules	3 days	Fri 29/11/19	Tue 03/12/19	6	
10		Test and Improve Program	5 days	Wed 04/12/19	Tue 10/12/19	9	
11		Assemble Everything	1 day	Tue 10/12/19	Tue 10/12/19		



Project: ECS 511U Group Projec
Date: Tue 10/12/19

Task
Split
Milestone
Summary
Project Summary
Inactive Task
Inactive Milestone
Inactive Summary
Manual Task
Duration-only
Manual Summary Rollup
Manual Summary
Start-only
Finish-only
External Tasks
External Milestone
Deadline
Progress
Manual Progress



Project: ECS 511U Group Projec
Date: Tue 10/12/19

Task	Inactive Summary	External Tasks
Split	Manual Task	External Milestone
Milestone	Duration-only	Deadline
Summary	Manual Summary Rollup	Progress
Project Summary	Manual Summary	Manual Progress
Inactive Task	Start-only	
Inactive Milestone	Finish-only	

Utility

quick access to basic everyday information without the need to check another device

Usability

easy interaction based on voice recognition and screen response

Experience

fun and easy to use for anyone

easy to assemble

Conceptual Model

mirror with a small screen on the side for the user to see the information they're asking for

microphone on top of the mirror for the user to give voice instructions

Visibility

microphone – indicates need of voice instructions

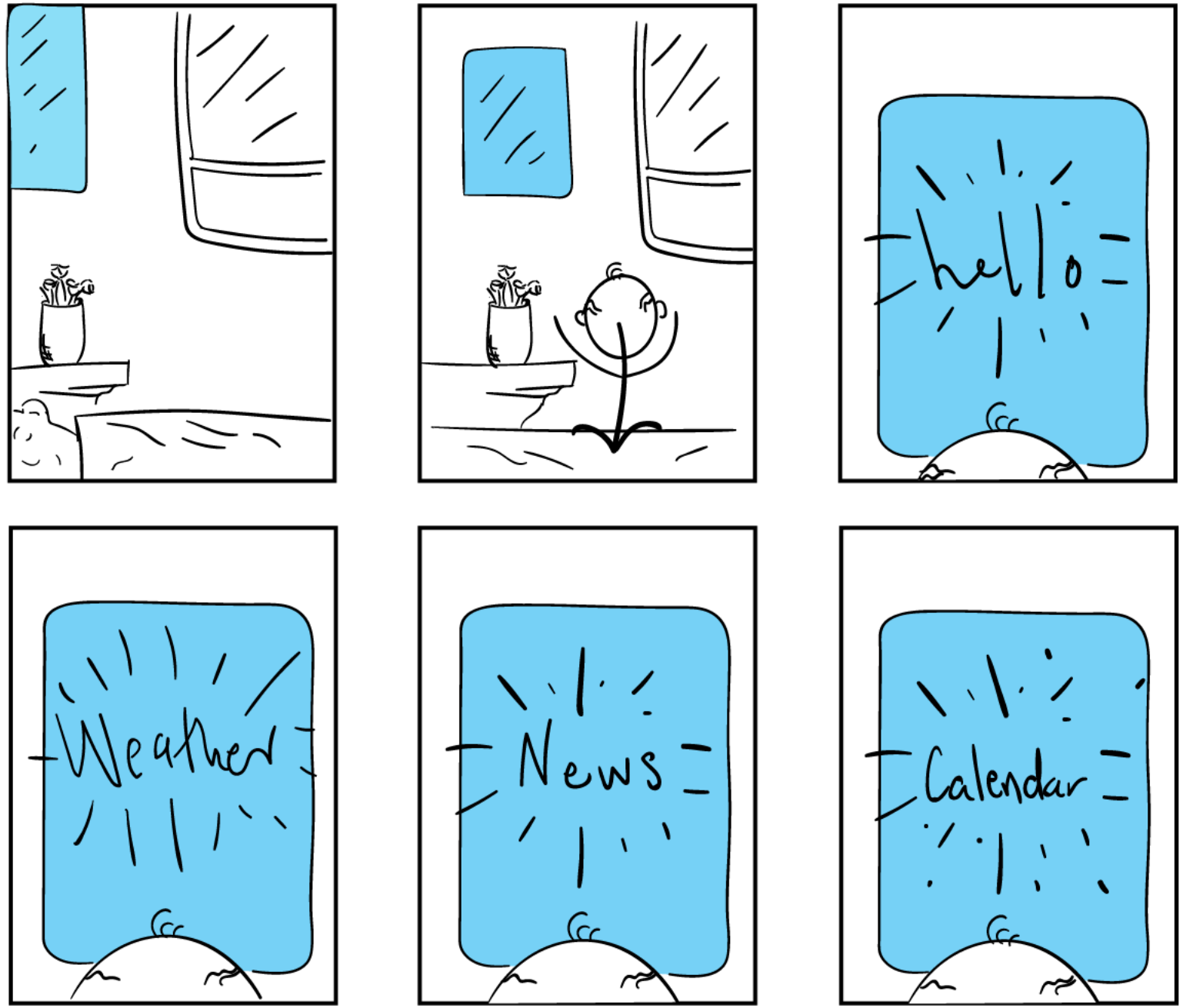
Mapping

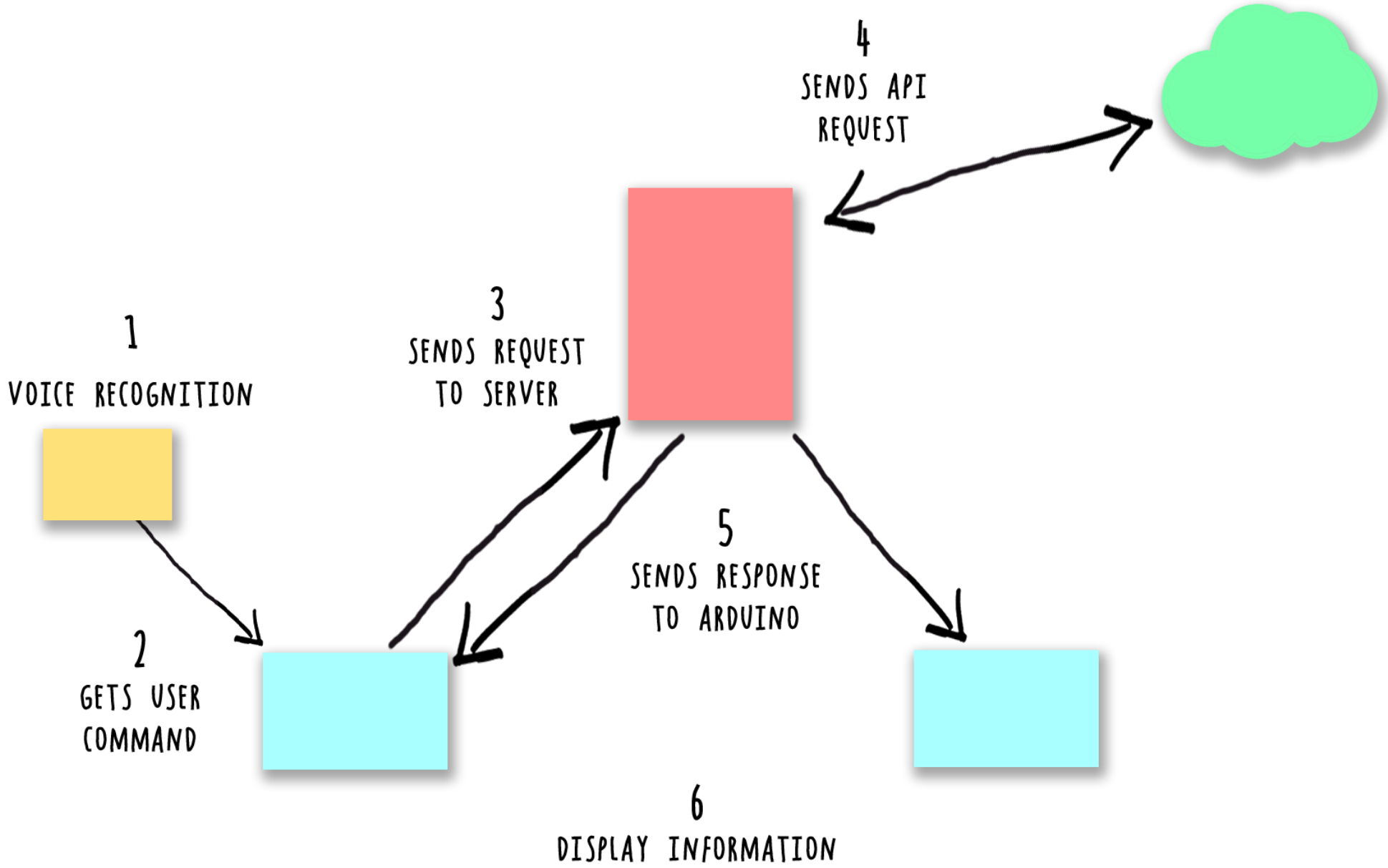
message on screen asking for voice instructions

Feedback

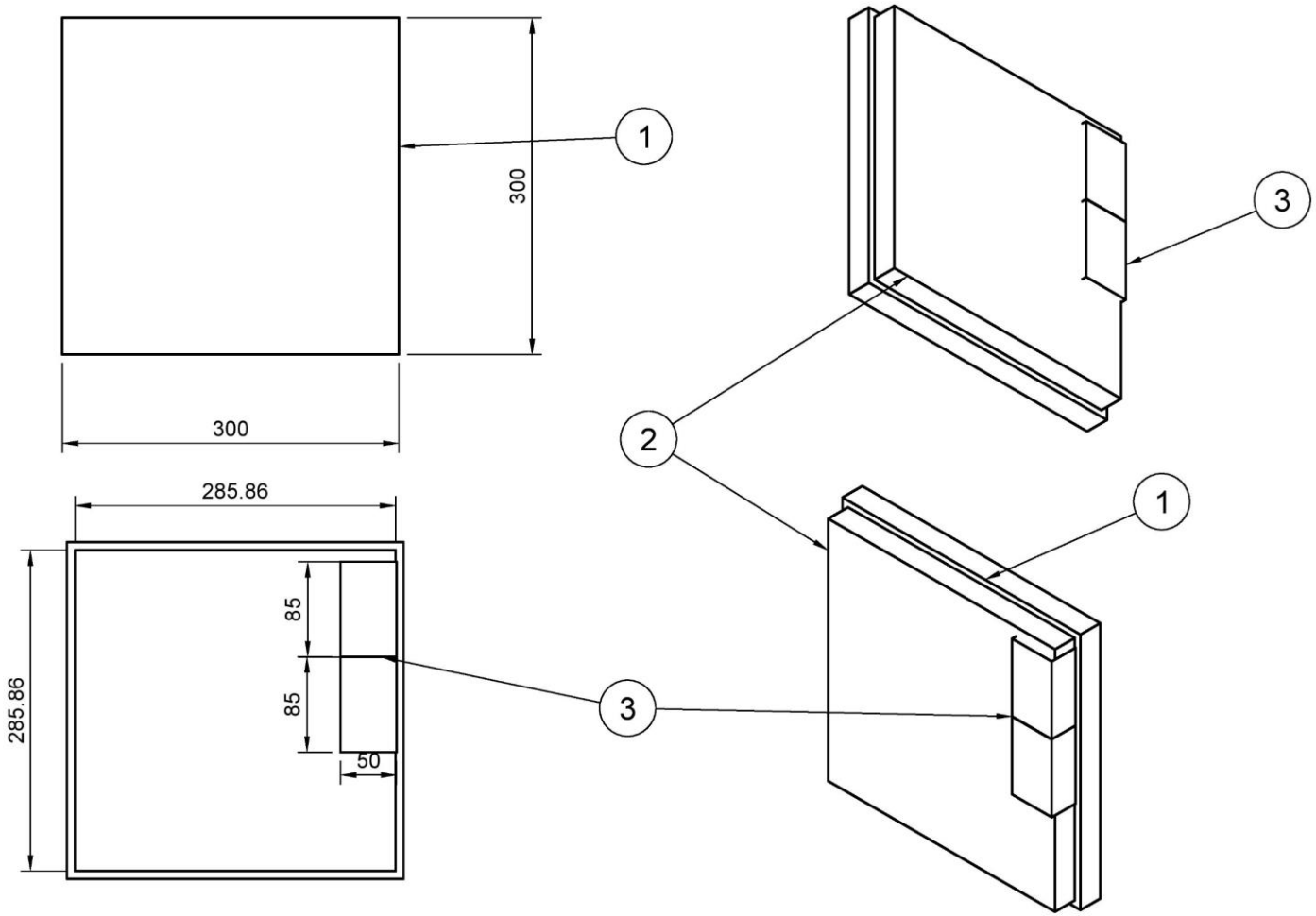
loading symbol

messages on the screens - visual


hello
Weather
News
Calendar


4
SENDS API
REQUEST
1
VOICE RECOGNITION
3
SENDS REQUEST
TO SERVER
5
SENDS RESPONSE
TO ARDUINO
2
GETS USER
COMMAND
6
DISPLAY INFORMATION

Solutions - Hardware



Item	Qty	Part Number	Description	Material
3	2	LCD Screen		Steel
2	1	Shadow Box		Steel
1	1	Mirror		Steel

Parts List

Dept. ECS511U	Technical reference	Created by Group 2 05-Dec-19	Approved by
		Document type Isometric Drawing	Document status Completed
		Title Assembly Drawing of Smart Mirror	DWG No.
			Rev. 2 / Date of issue / Sheet 1/1

future improvements

proximity sensor

improve Wi-Fi modules

remove Arduino

voice feedback

bigger variety of queries

MIRROR²

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