UI/UX DESIGN

Trends & Highlights

Oven UX / UI project using Qt technology

Qt

FUTURAE

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data management

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DESIGN CONTEXT AND GOALS

WHAT

UX/UI design trends scenario

WHERE

Home appliances, smart ovens

HOW

Exploring opportunities and challenges of future UI balancing aesthetics and functionality

WHEN

From 2021 to 2023 (and after)

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UX/UI SCENARIO

5 TRENDS TO LOOK AT

1

Moving towards mixed interaction
Mixed interaction through voice and gesture combined with visual aid and classic touch controllers

2

Advanced personalization
Different from customization, make the user feel the content has been created especially for him

3

UX/UI simplification and optimization
Moving to less-thinking action toward a natural behaviour to increase user satisfaction and accessibility

4

Animations and transitions
Mobile-like animated interactions: smooth and pleasing transitions for user encouragement and help in navigation

5

3D models
3D graphics and elements to engage user and present object virtually to create immersive experiences

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UX TRENDS IN OVENS

TOUCH SCREEN INTERACTION
Digital touch-screen display with enhanced graphics and UI

TOUCHLESS / HANDS FREE COOKING
Voice, gesture, visual aid

GUIDED COOKING
Step by step recipes and instructions

SMART COOKING SYSTEM
tracked and auto-regulated cooking mode through smart sensors for smell, temperature, color...

APP & HUB
Companion app & kitchen smart hub

SMART FOOD ID
Food recognition through camera

INCREASED CONNECTIVITY
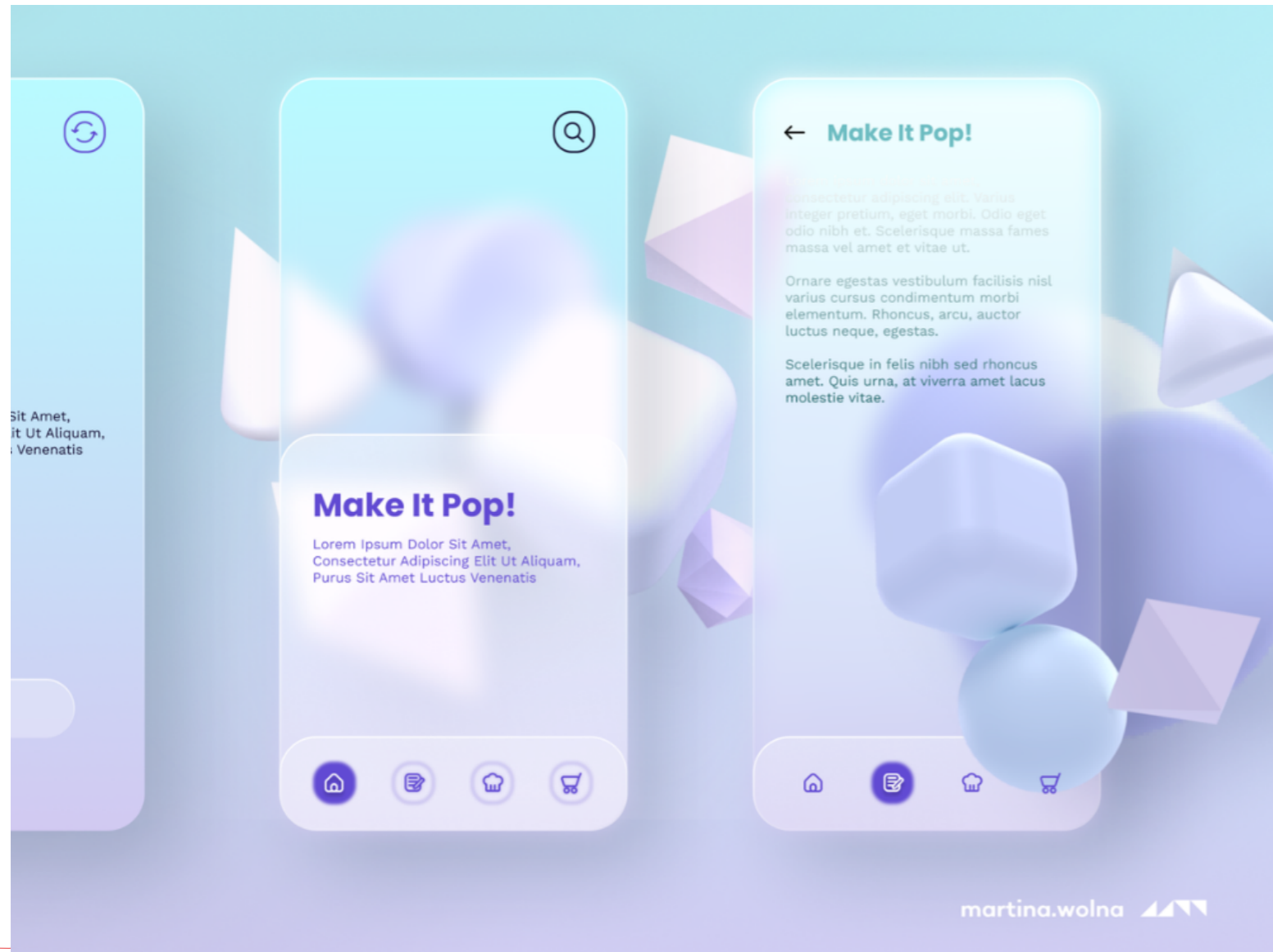to other appliances: fridge, mixer, etc.

SOCIAL INTERACTION
virtual cooking experience / tutorial / masterclass / remote cooking

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UI **TRENDS GUIDELINES**

3D ELEMENTS
such as icons, product
representation, transitions

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UI **TRENDS GUIDELINES**

GLASSMORPHISM
Soft shadows, layers and floating elements

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UI **TRENDS GUIDELINES**

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NEUMORPHISM
Minimal design, plastic extruded look, mimicking real textures

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UI **TRENDS GUIDELINES**
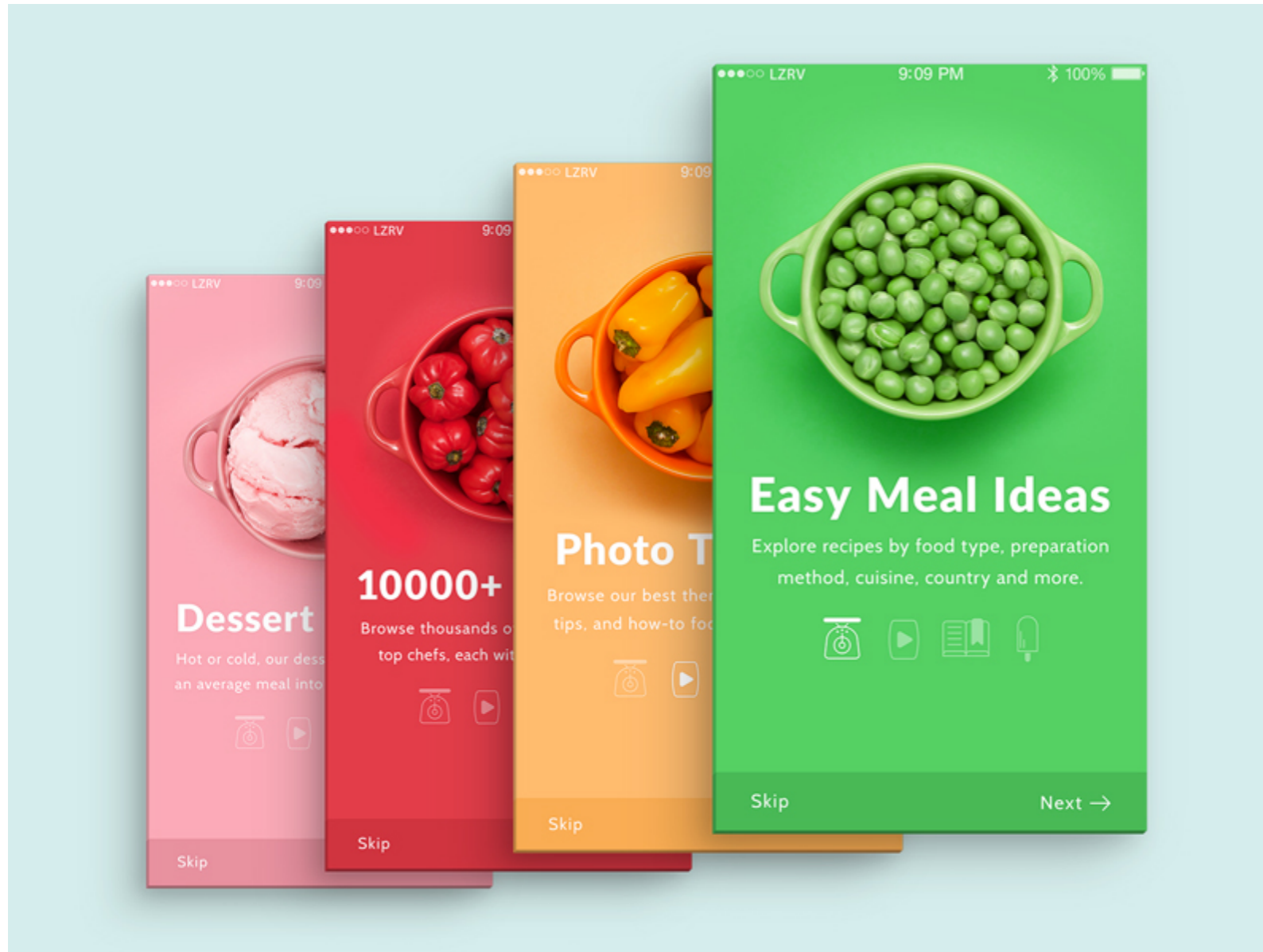
TYPOGRAPHY MATTERS
Bold & easy to read fonts
UX writing and microcopy

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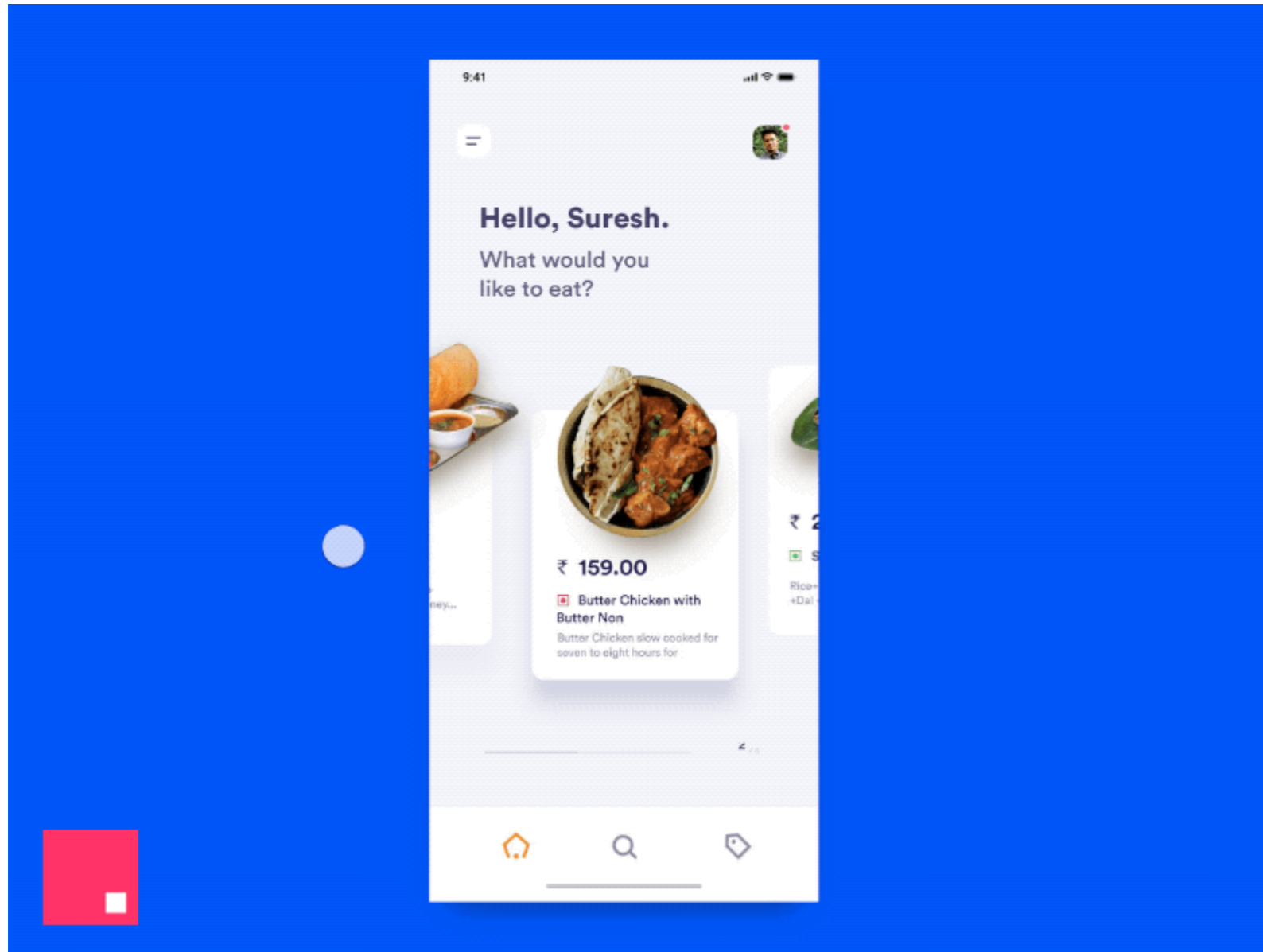
UI TRENDS GUIDELINES

Beko Vega Oven
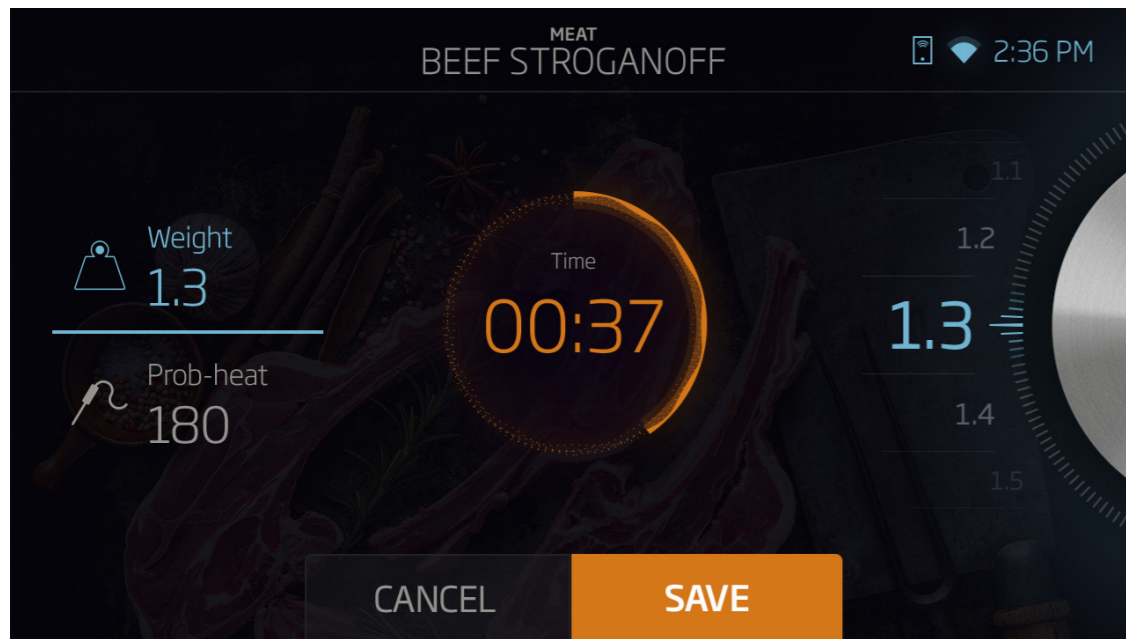
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DARK MODE/ADAPTIVE BRIGHTNESS
High contrast design, maximize readability and give a modern look

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UI TRENDS GUIDELINES

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MOBILE LOOKING
Animation, transitions and UI
with an app-like look and feel

To watch the animation file
click the following link

https://i.pinimg.com/originals/9e/e2/f3/9e
e2f356e92bf5d4ad44f8a153870d4a.gif

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UI **FEATURES**

LOW-END

Basic UI design

- ⊘ **Modern aesthetics**
- ⊘ **Custom icons**
- ⊘ **Textures**
- ⊖ Photo/ images
- ⊖ 3D Micro Animation
- ⊖ Smooth transitions
- ⊖ Video

MID-RANGE

Advanced UI design

- ⊘ **Modern aesthetics**
- ⊘ **Custom icons**
- ⊘ **Textures**
- ⊘ **Photo / images**
- ⊘ **3D Micro animations**
- ⊘ **Smooth transitions**
- ⊖ Video

HIGH-END

Advanced UI design

- ⊘ **Modern aesthetics**
- ⊘ **Custom icons**
- ⊘ **Textures**
- ⊘ **Photo / images**
- ⊘ **3D Micro animations**
- ⊘ **Smooth transitions**
- ⊘ **Video**

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TARGET HARDWARE

Analysis of trends used in the oven market

Definition of features and displays

Boards selection

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DISPLAY TREND LOW-END

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Innovativo display VIVO Screen

Vivo Screen
Vivo screen 4.3'' or Vivo Screen Max
6.3'' LCD mounted on SMEG ovens

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DISPLAY TREND **MID-RANGE**

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GE Profile
7'' touch-screen Full HD display
mounted on **GE Profile™ 30''**

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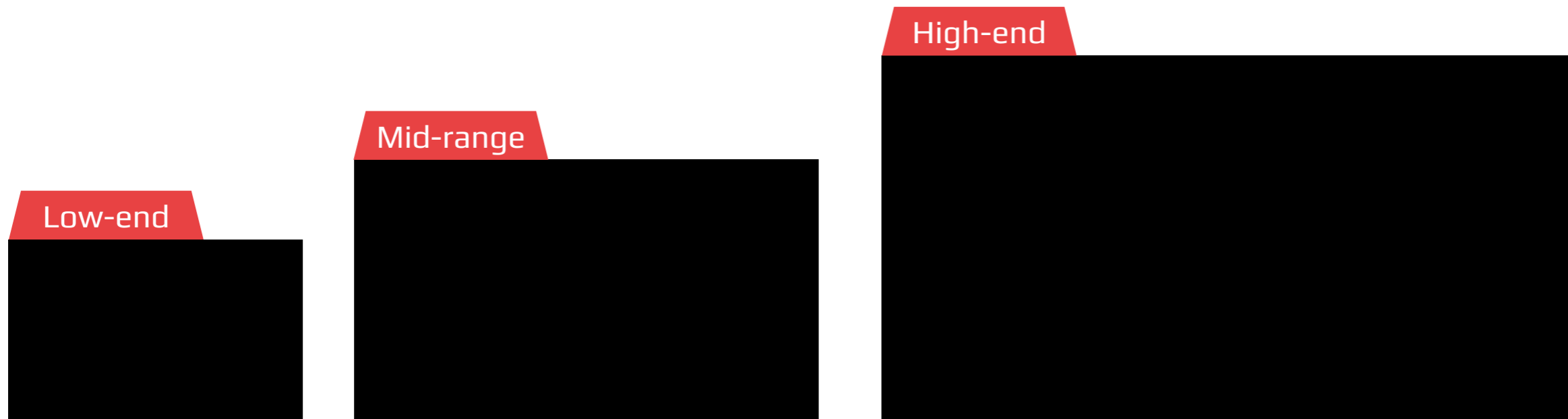# DISPLAY TREND HIGH-END

GE Kitchen Hub
27-inch integrated smart-touch screen and ventilation combo

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DISPLAY CONFIGURATIONS

High-end

Mid-range

Low-end

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Qt for MCU

STM32F469I

No connection

4.3" 480x272
Touch Display

Qt for MCU

STM32H750B

Bluetooth

7" 1024x600
Touch Display

Full Qt Framework

On-Lap M505T

Bluetooth & WI-FI

15.6" 1920x1080P
Touch Display

https://www.gechic.com/en/m505t-touch-monitor/spec/

TASK 1 **MAIN FEATURES**

Clock

- Idle

- Timer

1

Feature 1

- Normal Cooking + add to Favourites

2

Feature 2

- Scheduled Cooking

3

Feature 3

- Handling of Settings (e.g. language, date, clock, sounds)

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TASK 1 INNOVATIVE FEATURES

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LOW-END

⊘ **Push-notification for step-by-step cooking**

No oven communication

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⊘ **Push-notification for step-by-step cooking**

⊘ **Local sensors + Remote control of step-by-step cooking and oven configuration**

Bluetooth based communication

HIGH-END

⊘ **Push-notification for step-by-step cooking**

⊘ **Local sensors + Remote control of step-by-step cooking and oven configuration**

⊘ **Remote/social cooking for virtual cooking experience / tutorial / masterclass**

Bluetooth + WI-FI based communication

REFERENCE **& SOURCES**

https://www.ifa-berlin.com

https://thespoon.tech/the-complete-ces-2020-kitchen-tech-report/

https://thespoon.tech/ces-2021-lg-to-unveil-new-knock-knock-fridge-with-uv-cleaning-and-voice-control/

https://www.afdigitale.it/ifa-2020-novita-bosch-tra-cooking-e-giardinaggio/

https://www.ces.tech/Articles/2019/Smart-Home-Product-Adoption-on-the-Rise.aspx

https://www.eldomtrade.it/2020/09/04/ifa-2020-miele-porta-nuovi-prodotti-e-tecnologie-allinsegna-dellintelligent-living/

https://www.gechic.com/en/m505t-touch-monitor/spec/

https://uxdesign.cc/

https://uxstudioteam.com/ux-blog/ui-trends-2019/ (updated to 2021)

https://medium.com/codica/leading-ui-ux-web-design-trends-in-2020-2021-6bf991129072

https://www.geappliances.com/ge/kitchenhub/

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