UI/UX DESIGN

Trends & Highlights

Oven UX / UI project using Qt technology
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)
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
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
UI TRENDS GUIDELINES

3D ELEMENTS
such as icons, product representation, transitions
GLASSMORPHISM
Soft shadows, layers and floating elements
UI TRENDS GUIDELINES

NEUMORPHISM
Minimal design, plastic extruded look, mimicking real textures
UI TRENDS GUIDELINES

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

DARK MODE/ADAPTIVE BRIGHTNESS
High contrast design, maximize readability and give a modern look
UI TRENDS GUIDELINES

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/f3/9e2f35e92bf5d4ad4f8a153870d4a.gif
## UI FEATURES

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<th>Level</th>
<th>Features</th>
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<td><strong>LOW-END</strong></td>
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TARGET HARDWARE

Trends & Selected Items

Oven UX / UI project using Qt technology
TARGET HARDWARE

Analysis of trends used in the oven market

Definition of features and displays

Boards selection
DISPLAY TREND LOW-END

Vivo Screen
Vivo screen 4.3” or Vivo Screen Max
6.3” LCD mounted on SMEG ovens
DISPLAY TREND MID-RANGE

GE Profile
7” touch-screen Full HD display mounted on GE Profile™ 30”
DISPLAY TREND **HIGH-END**

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

Low-end
- Qt for MCU
- STM32F469I
- No connection
- 4.3” 480x272 Touch Display

Mid-range
- Qt for MCU
- STM32H750B
- Bluetooth
- 7” 1024x600 Touch Display

High-end
- 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

Feature 1
- Normal Cooking + add to Favourites

Feature 2
- Scheduled Cooking

Feature 3
- Handling of Settings (e.g. language, date, clock, sounds)
**TASK 1  INNOVATIVE FEATURES**

**LOW-END**
- Push-notification for step-by-step cooking
- No oven communication

**MID-RANGE**
- 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

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