Declaration of Group 11

Impact of Demographics and User Personas on GUI Development

This declaration of contributions documents the individual contributions of each group member to the project paper and describes the extent and nature of Artificial Intelligence usage.

To support transparent collaboration and traceability, we created a GitHub repository for this project in which all relevant materials are available, including the project source files, section drafts, presentation materials, the IEEE template provided for submission, and this declaration. The repository further documents the complete version history, including all updates, branches, and individual contributions, allowing full visibility of changes and authorship throughout the development process:
https://github.com/alelomuz/How-personas-influence-GUI-development

Hoai Nam Ngo

Contribution:

- Section 5: The Demographic- and Persona-Influenced Design Process

Use of AI:

- [Not specified]

Klaudia Paździerz

Contribution:

- Section 3: Population-Level Adaptation (Part E, G and H)
    - E: Key age-related aspects affecting GUI development
    - G: Disabilities and accessibility needs
    - H: Scalable layouts and text for diverse user capabilities

Use of AI:

- [Not specified]

Nils Hothum

Contribution:

- Section 2: GUI development demographics and personas
- Section 6: Impact of Artificial Intelligence in GUI development

Use of AI:

- Used AI as research assistant to get pointed to some sources as start of the research
- As a discussion partner to gain new perspectives and talk things through
- To receive feedback on grammar, spelling, and sentence structure

Alessandro Lo Muzio

Contribution:

- Overall document structure and formatting
- Repository setup, template creation, references, abstract, index terms
- Section 1: Introduction
- Section 3: Population-Level Adaptation (A, B, C and D)
  - A: What is Population-Level Adaptation?
  - B: Architectural Decisions: Modularity and Configurability
  - C: Country- and Region-Specific Requirements
  - D: Accessibility as a Baseline System Capability
- Section 4: Individual-Level Adaptation
- Section 7: Conclusion

Use of AI:

- Used AI as a research assistant to discover relevant sources, not as a source itself.
- Extensively used AI for language and vocabulary improvement by generating alternative phrasings and refining them manually.