

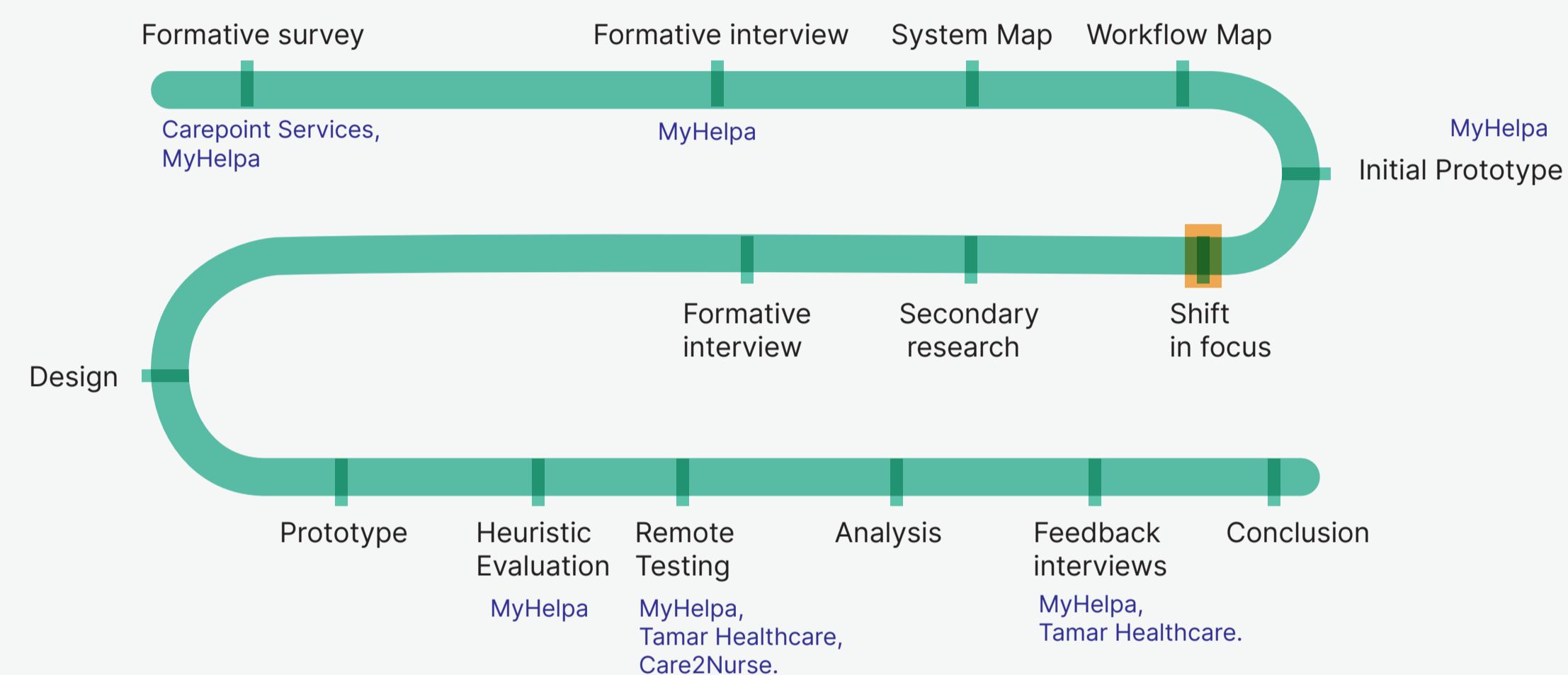
Digital exploration of on-boarding and care planning using semantic network, interface design, and automated testing

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Abstract

This project evaluates the digital transformation of care assessments and care planning targeting reduction in repetition, establishing intuitive flow between the assessments, and AI aided care planning. Semantic network was explored as a way to realize AI. The interface was tailored to care supervisors and their specific tasks using usability heuristics. Finally, the hypothesis for testing looked into acceptance of such a transformation based on accuracy of logic, interactive and navigational features of software interface.

Study Method:



Introduction & Background

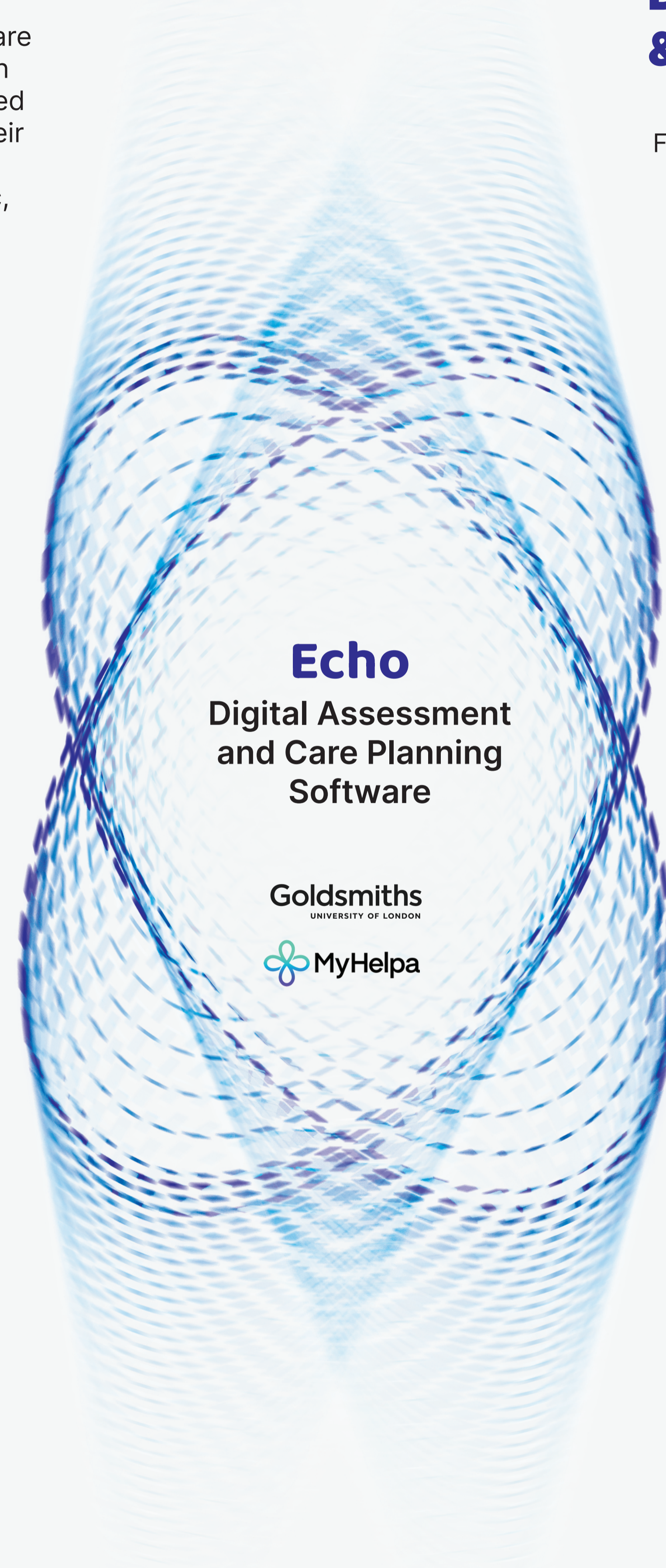
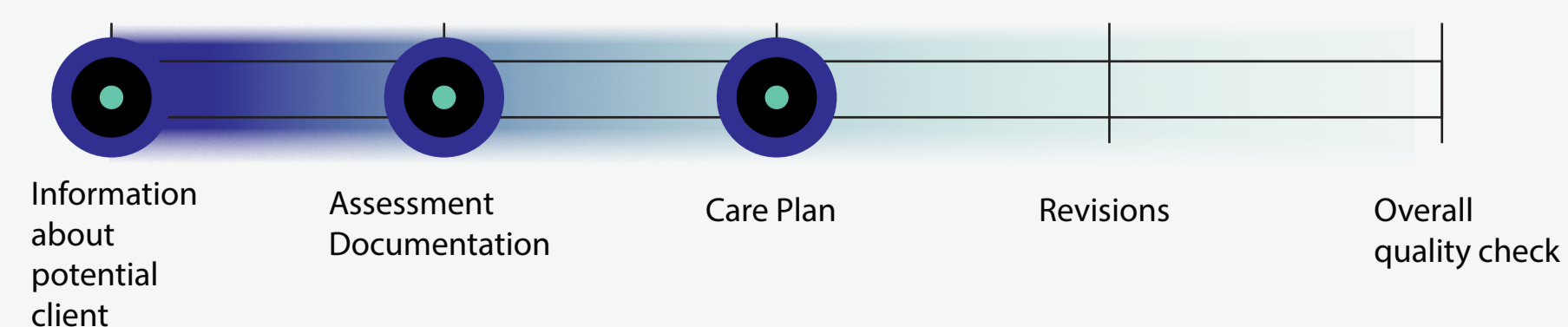
In the UK alone, the population of 65+ is projected to be 4.0 million more than under 16s by the year 2035 [r]. The projected shift in demographic calls for advancement of the current care systems [r].

After formative research, the problem of high repetition of data in the on-boarding assessments and the care plan was established as the primary focus. Assessment clearing and care planning are extensive tasks, that takes place in four to five parts, and take up to days to complete due to their complexity. The current paper records the assessments were not only leading to excessive repetition, but also lacked personalization due to a fixed template.

User Focus:

Care Supervisors- responsible for on-boarding new clients with the help of assessment forms and generating a care plan.

Journey of the Care Supervisor



Echo Digital Assessment and Care Planning Software



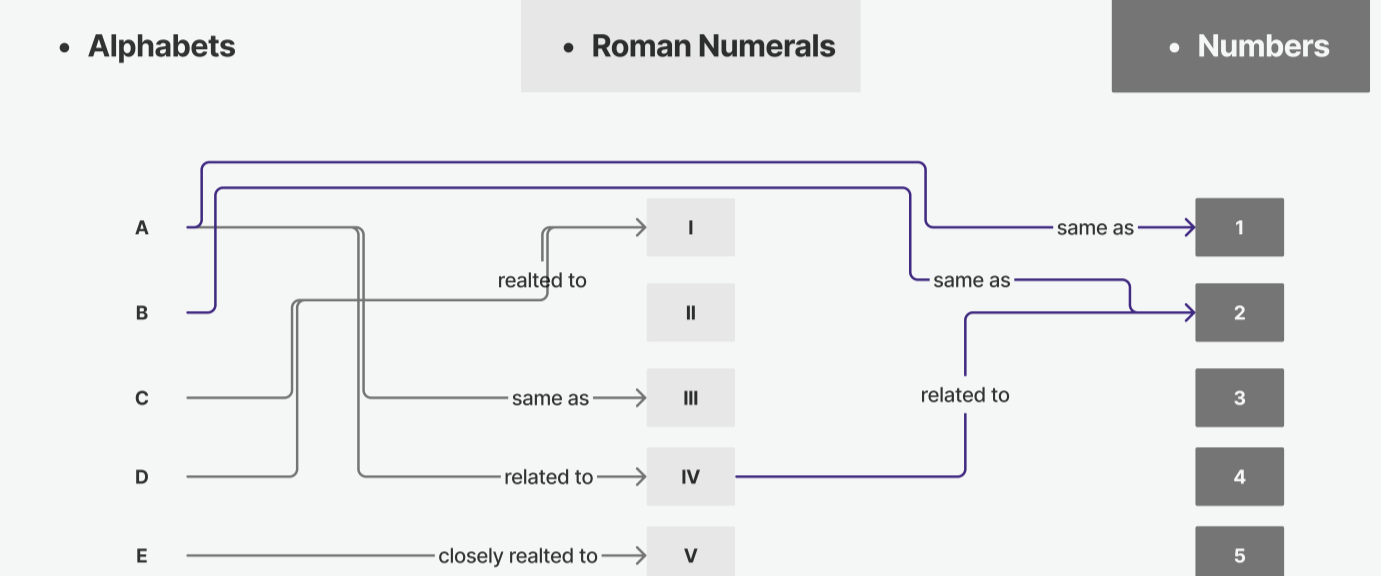
Design & Diagram

Four Part Assessment

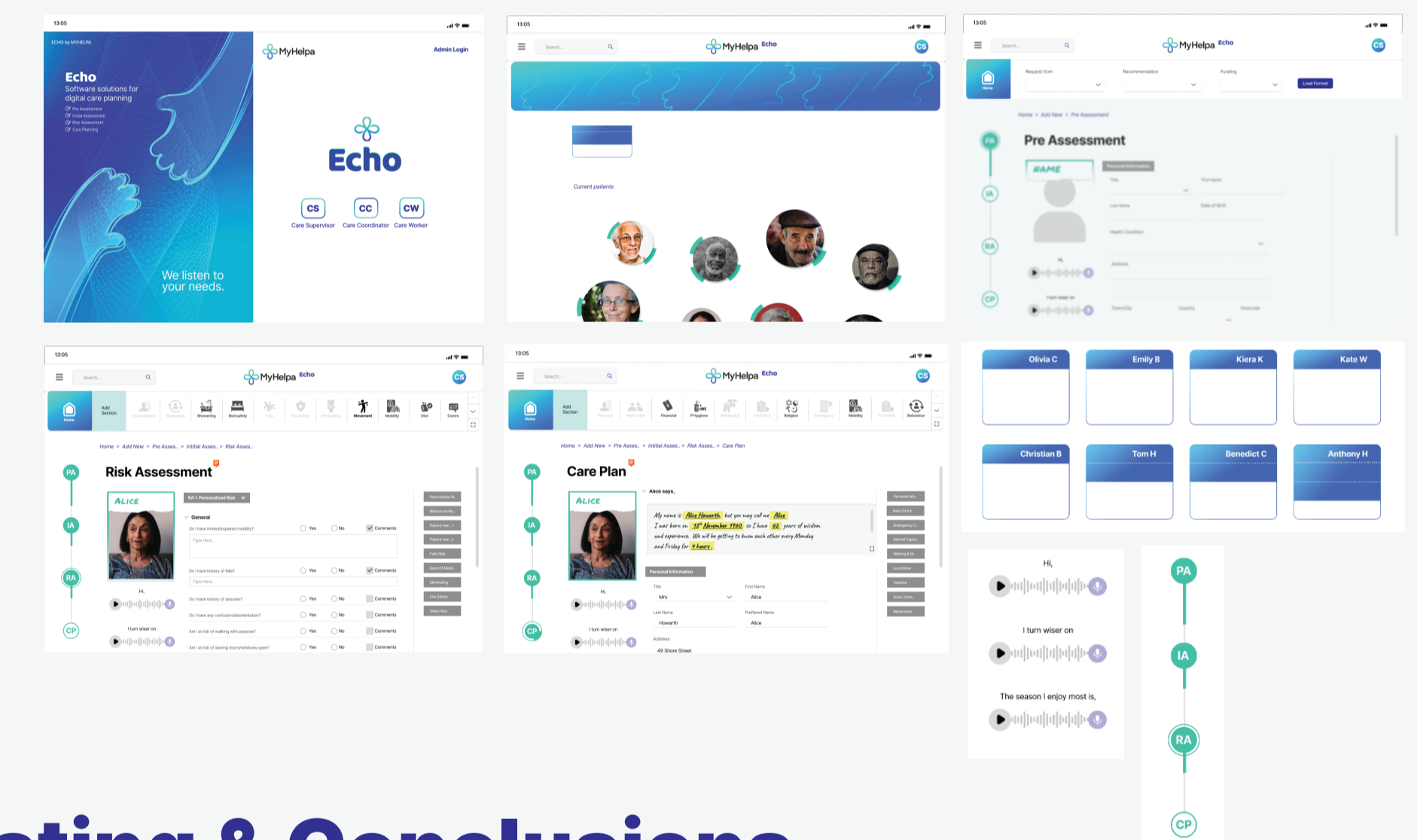


Semantic Network sample logic

- Same as = prefill data
- Related to = suggest auto enable
- Closely related to = auto enable

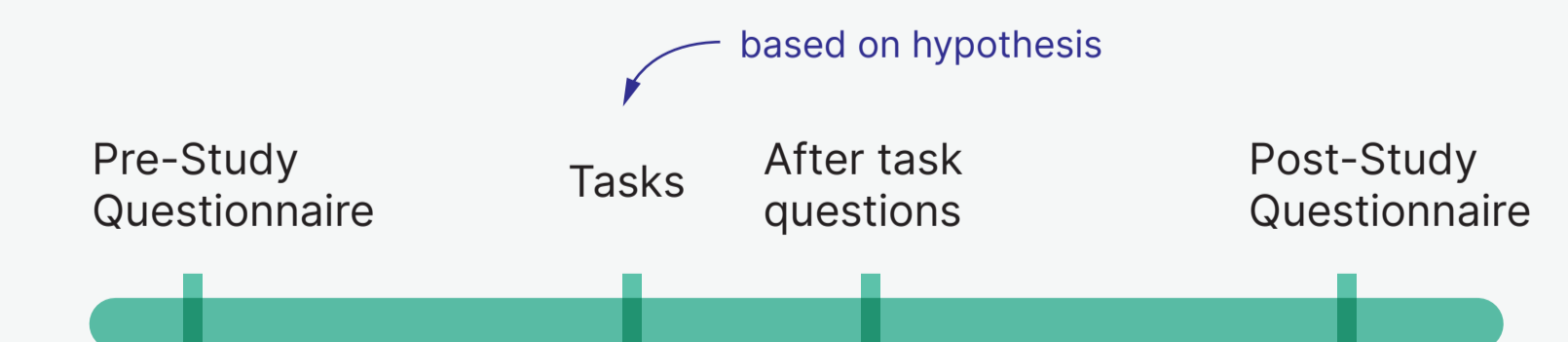


Screens & features



Testing & Conclusions

Remote testing was opted to gather feedback.



Conclusion summary:

- Restriction in input can regulate actions, and reduce errors.
- Smaller tasks lead to better efficiency.
- Limiting function in features can establish order.
- Degree of customization affects the perception of agency.