

PROJECT *KETOKIDS*: The development of a web-based application prototype to support the management of Ketogenic Diet Therapy for children with refractory epilepsy

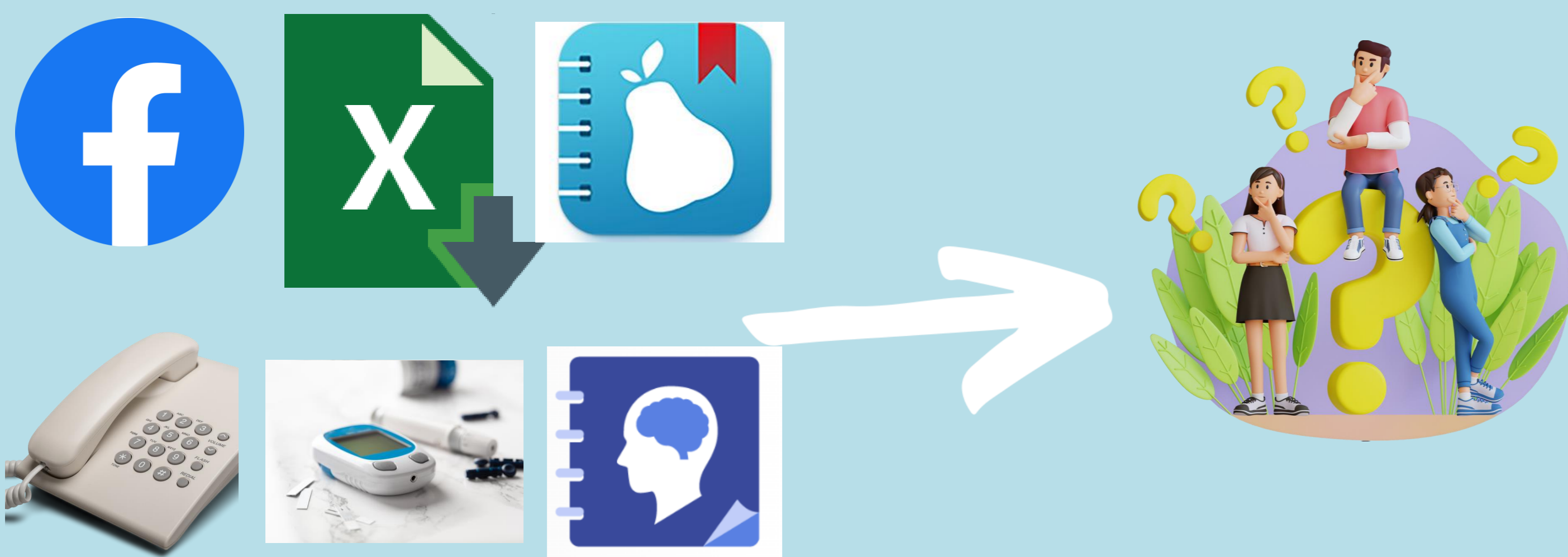


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BACKGROUND

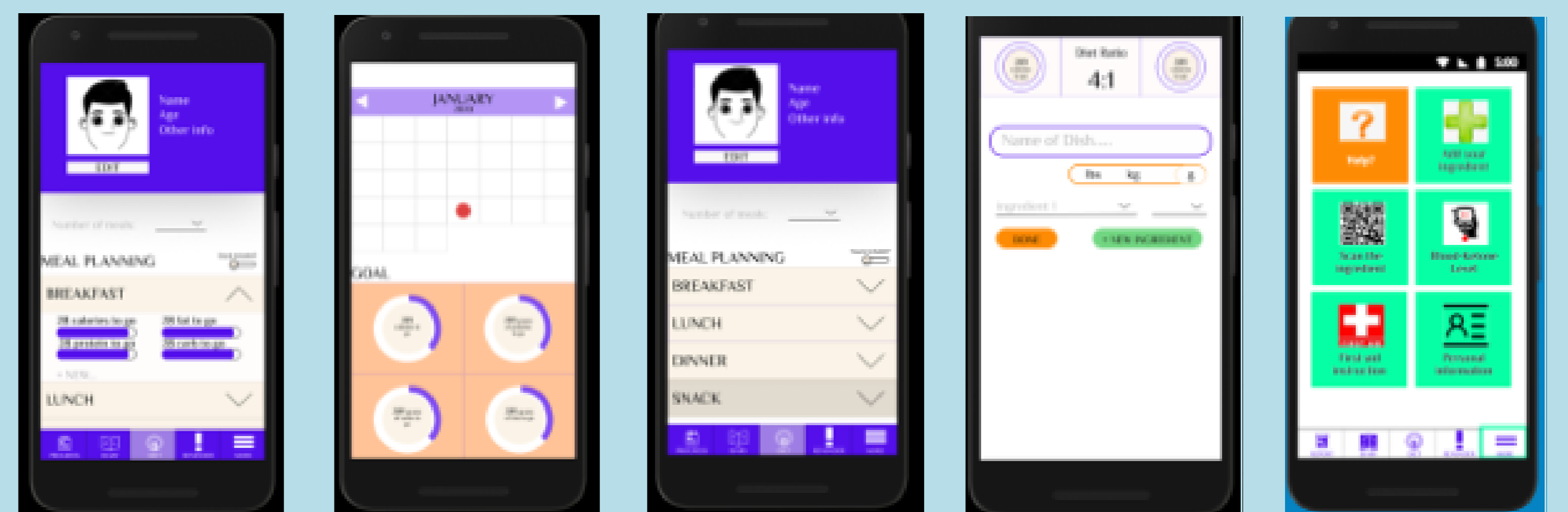
- Parents and caregivers rely on multiple platforms to plan and implement Ketogenic Diet treatment
- Multiple tools for dietary management increase risk of error in the implementation and monitoring of dietary treatment
- Clinical data can be missed when relying on multiple tools
- Currently, we rely on one way data sharing
- Users find using multiple tools to be confusing and time consuming



RESULTS

- Team *KetoKids* worked collaboratively to produce wireframes that incorporated key functionality
- User testing was conducted with 2 families
- 2/2 families felt the app would improve management of KDT
- 100% families agreed that it would be useful to have one app to record all epilepsy data
- 100% of families agreed that it would help identify associations between diet, ketones and seizures.

KETOKIDS IMAGES



Key functionality of *KetoKids* prototype

- ✓ *Diet ratio calculator*
- ✓ *Seizure diary*
- ✓ *Ketone monitoring and graphical representation of ketone levels*
- ✓ *Diet tracking*
- ✓ *Recipe development*

CONCLUSION

A web-based application prototype has been co-developed to aid in the management of Ketogenic Diet Therapy. The prototype has been well accepted by both clinicians and parents. We are now seeking opportunities for collaboration to transition the prototype to make it ready for patient use.

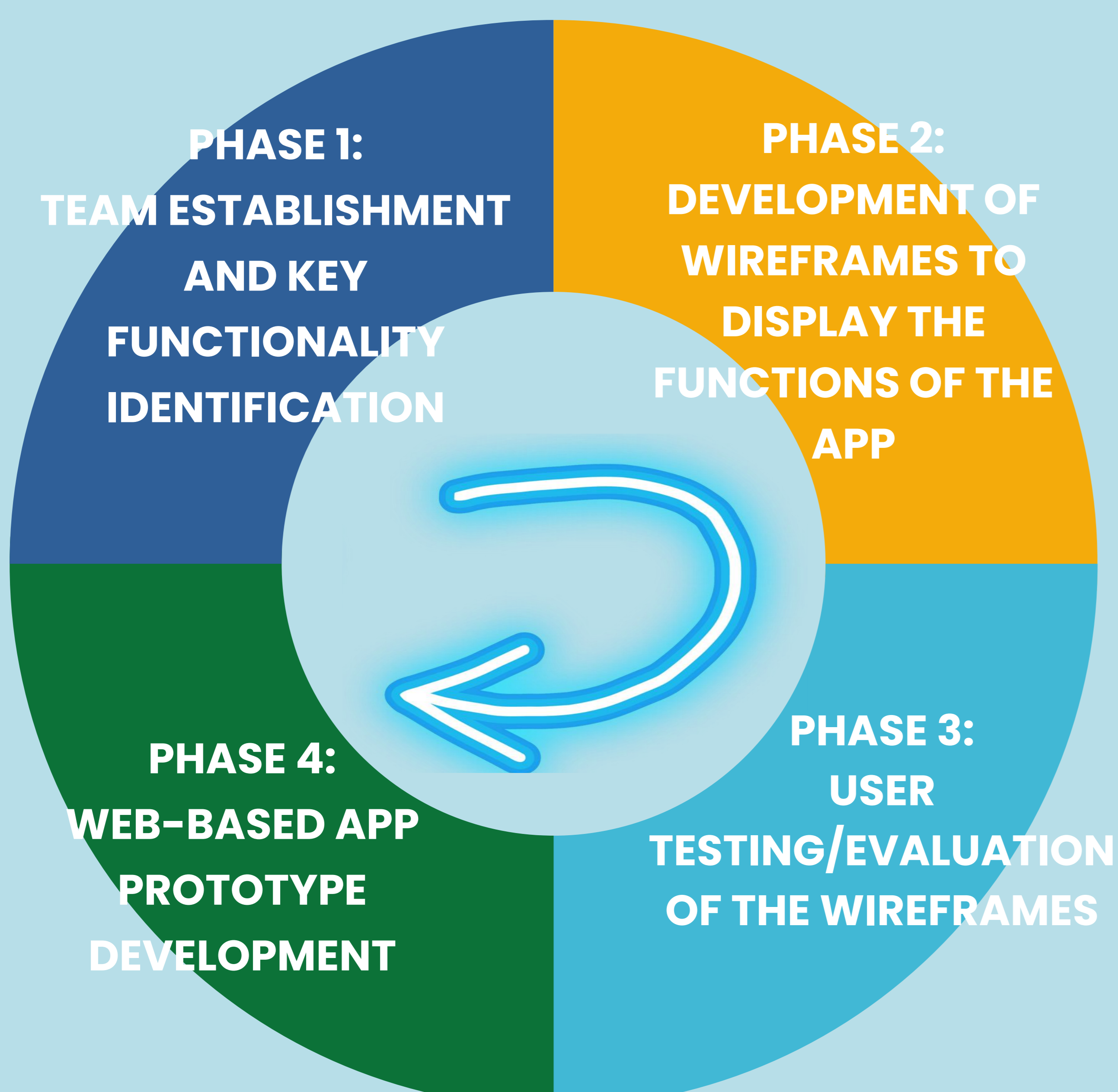
Please contact me for more information about our work and/or collaboration opportunities

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OBJECTIVE

To develop a web-based application prototype, accessible by smartphone, to enhance and streamline the management of Ketogenic Diet Therapy

METHOD



MONASH
University

Monash
Children's
Hospital