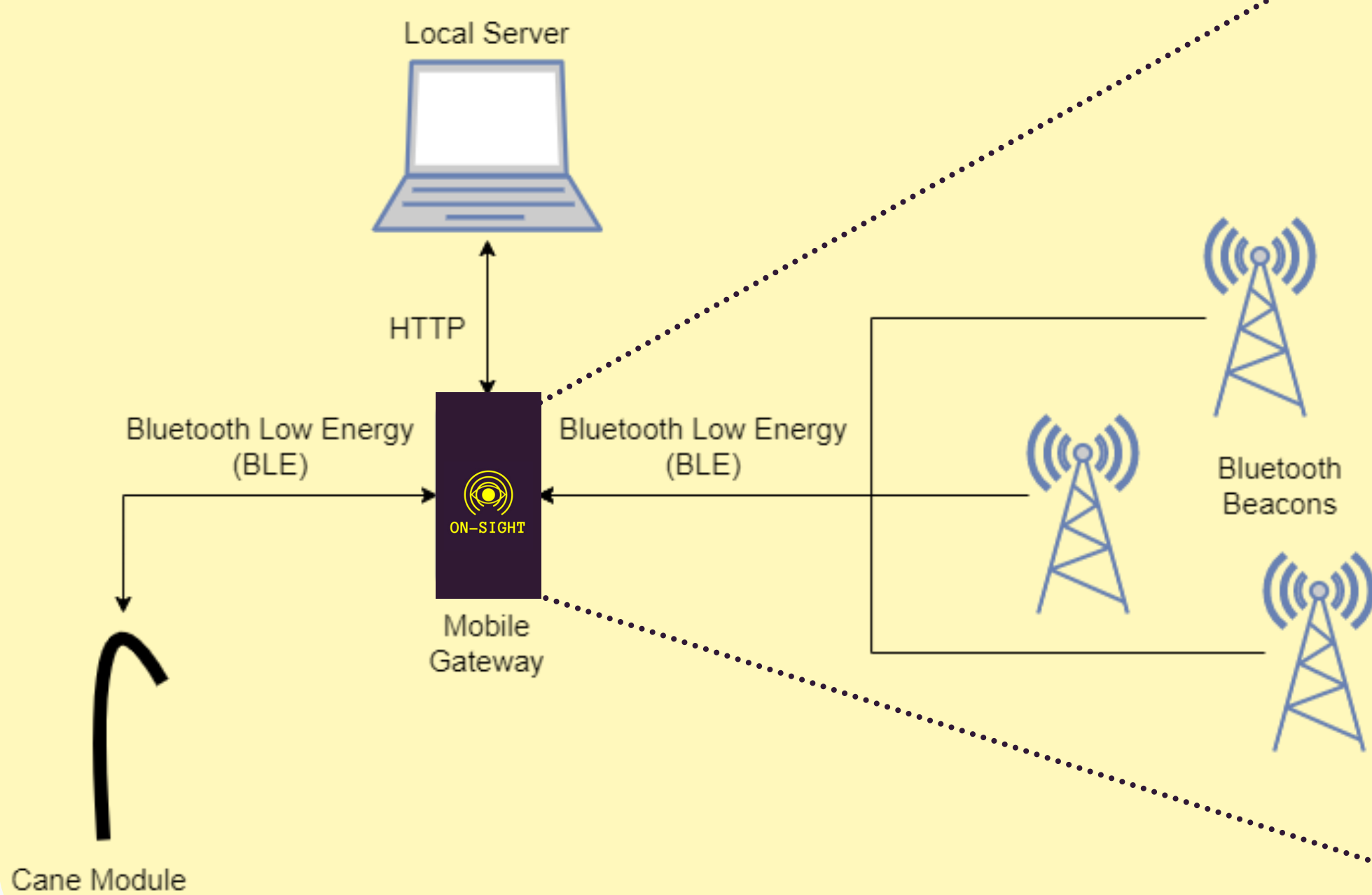


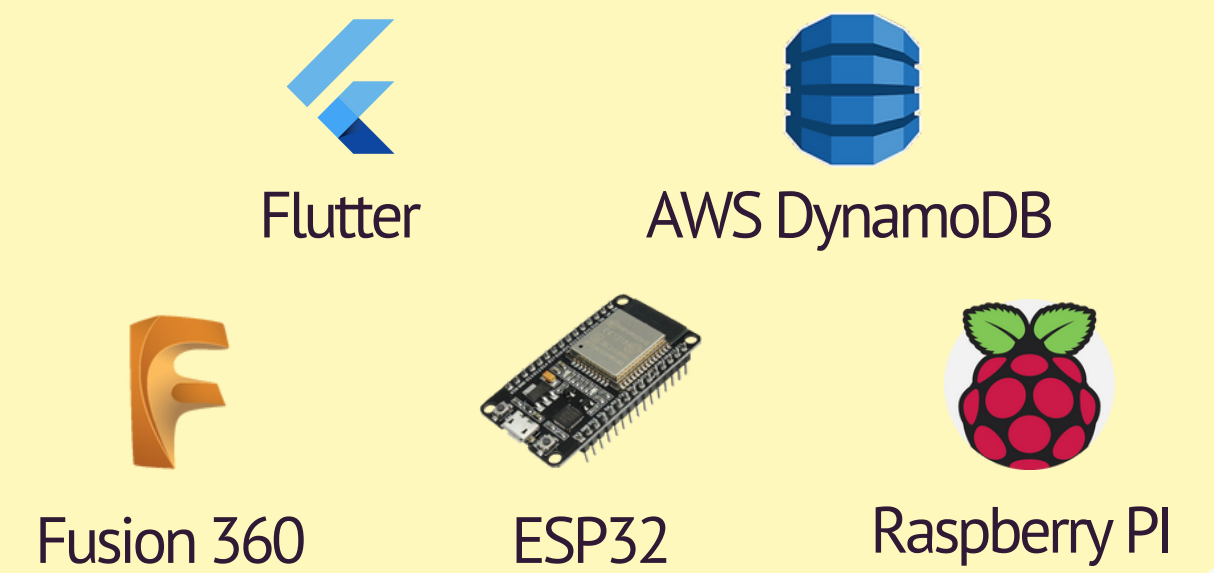
ABSTRACT

Outdoor navigation has seen major advancements in map applications throughout the years. However, there are still significant limits in terms of indoor positioning capabilities. This is evident in the case of the visually impaired (VI) in Singapore, particularly in eateries. As a result, our team has looked into existing localisation algorithms to create an indoor positioning system using a mobile application. Our goal is to provide more convenience for the VIs to navigate around eateries by utilising an attachable module for those who need to use a white cane to get around. As a result, OnSight was born: an indoor navigational help system for the VIs around eateries.

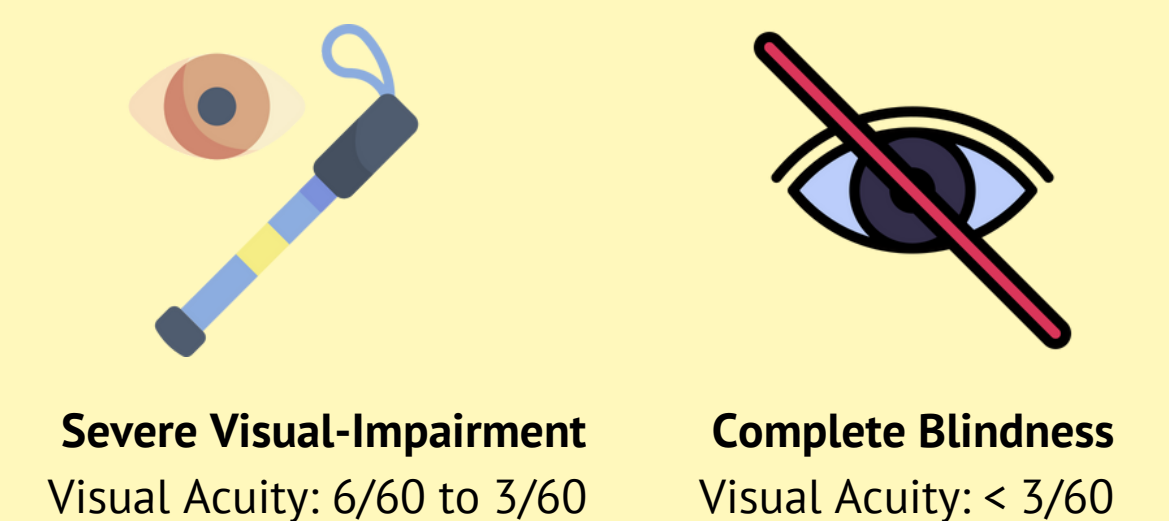
SYSTEM ARCHITECTURE



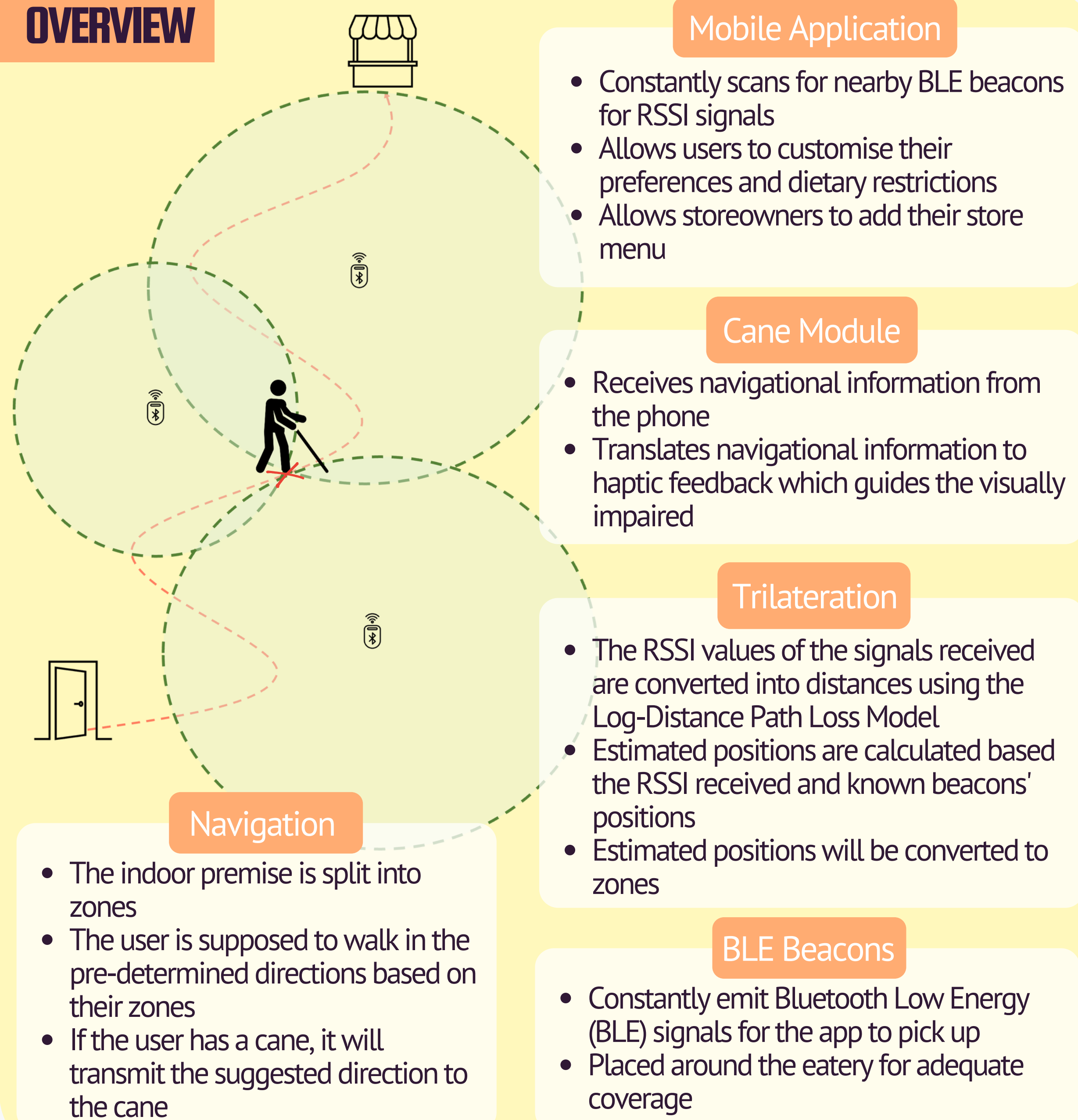
TOOLS USED



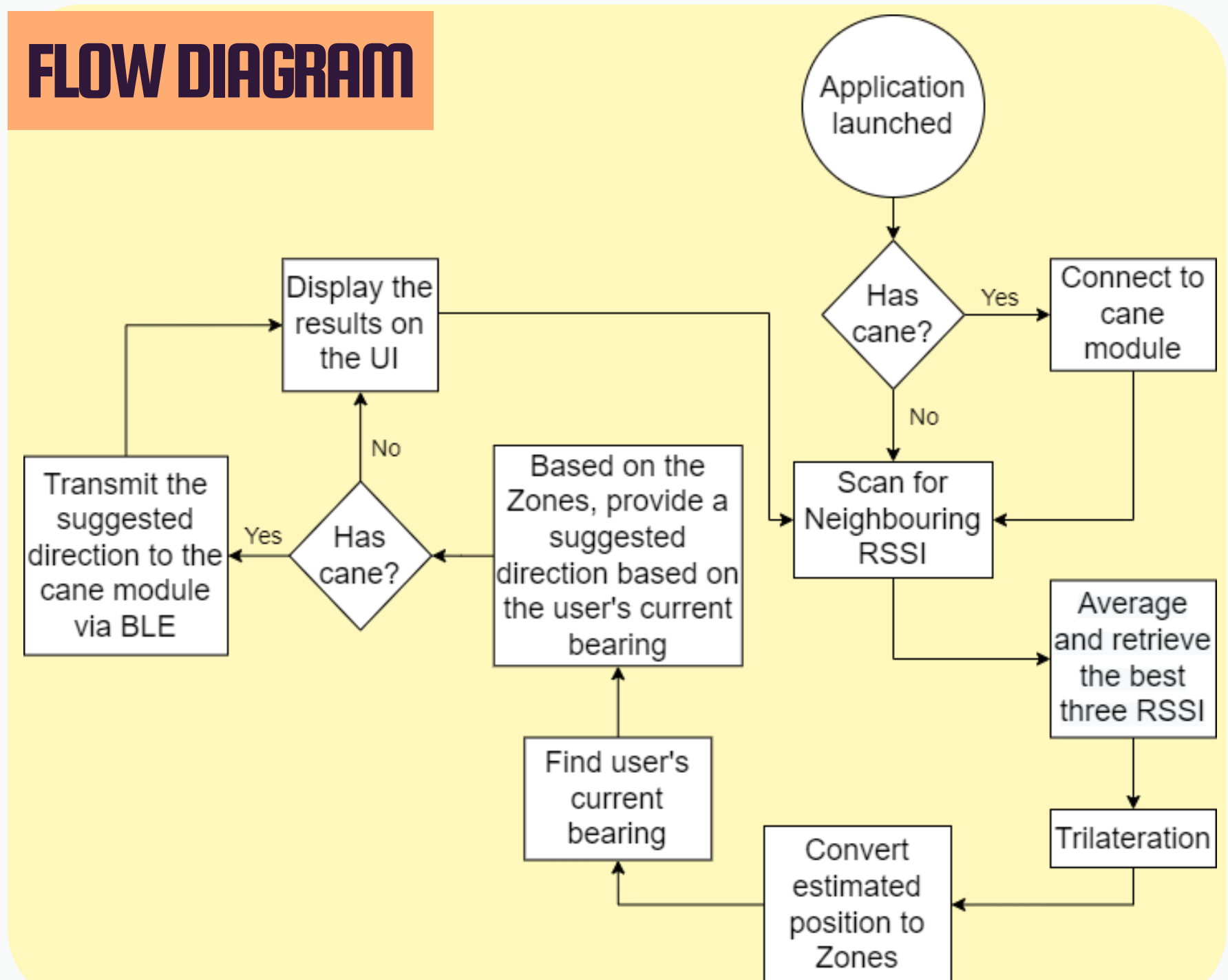
TARGET AUDIENCE



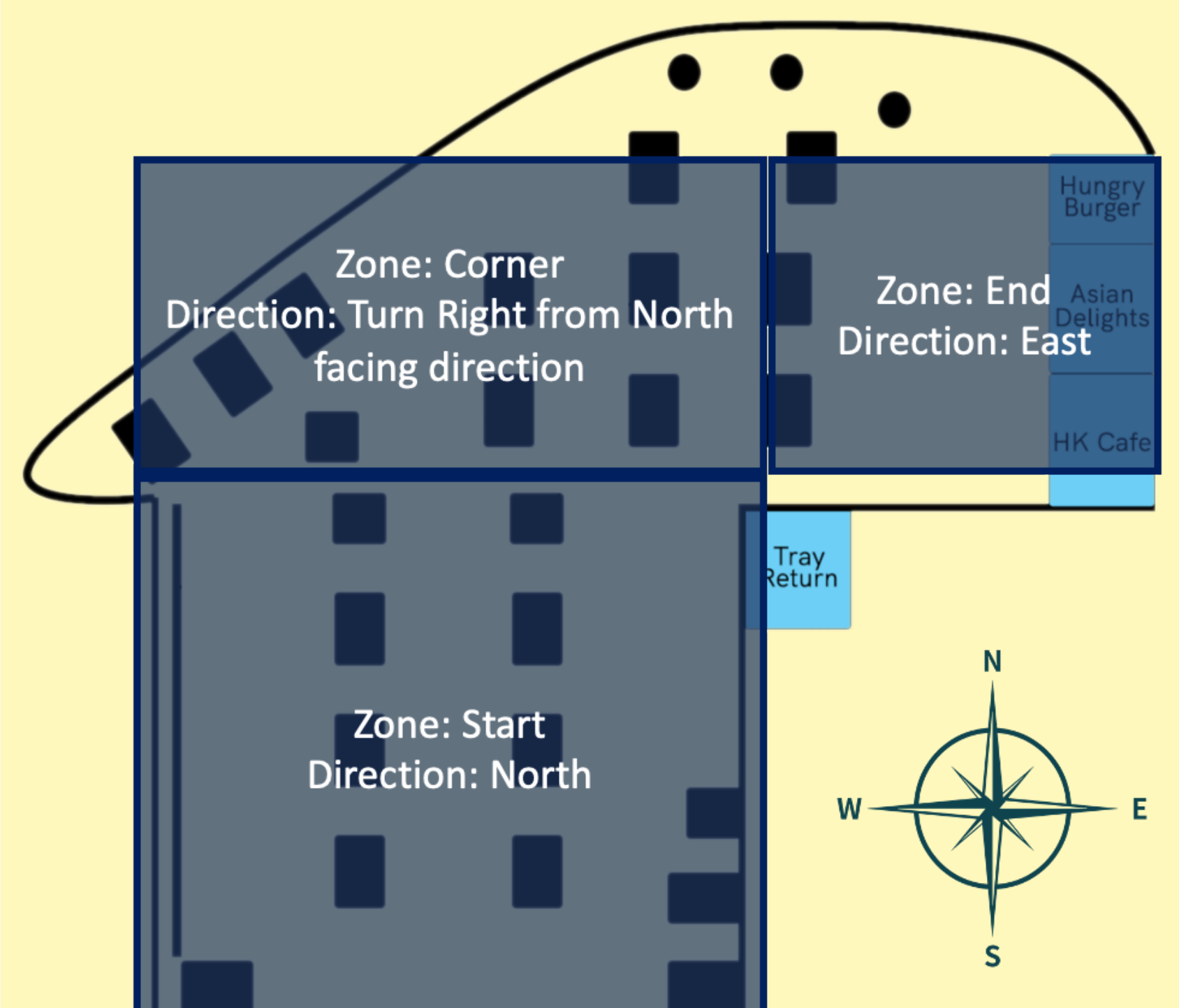
OVERVIEW



FLOW DIAGRAM



ZONING



CONCLUSION

Overall, OnSight is a system that was created to help the VI have an improved experience at eateries through increased accessibility and convenience. While it is not a perfect solution yet, it is a massive step taken in ensuring that individuals with such challenges are not severely limited when performing even the most mundane of tasks such as food ordering. The team has also continuously and extensively searched for ways to improve the system design with the VIs in mind.