

# Empowering Breast Self-Awareness: Integrating Augmented Reality For Comprehensive Breast Self- Examination

In recent years, Augmented Reality (AR) has seen a growing application in the healthcare industry, revolutionizing patient care, medical training, and diagnostics. In alignment with this technological trend, this thesis explores the development and evaluation of an innovative mobile application that harnesses the power of AR to enhance breast self-examinations. This application offers real-time, step-by-step instructions projected onto the user's body to ensure precise self-examinations, supplemented by personalized feedback and guidance for follow-up actions. Through this research, we have gained valuable insights into the fundamental pain points users encounter in breast self-examination, user attitudes toward the application of AR technology in this domain, and their reactions to the newly designed experience. These findings provide a wealth of information and assistance in shaping the future of breast self-examination, offering a more informed and enhanced user experience.

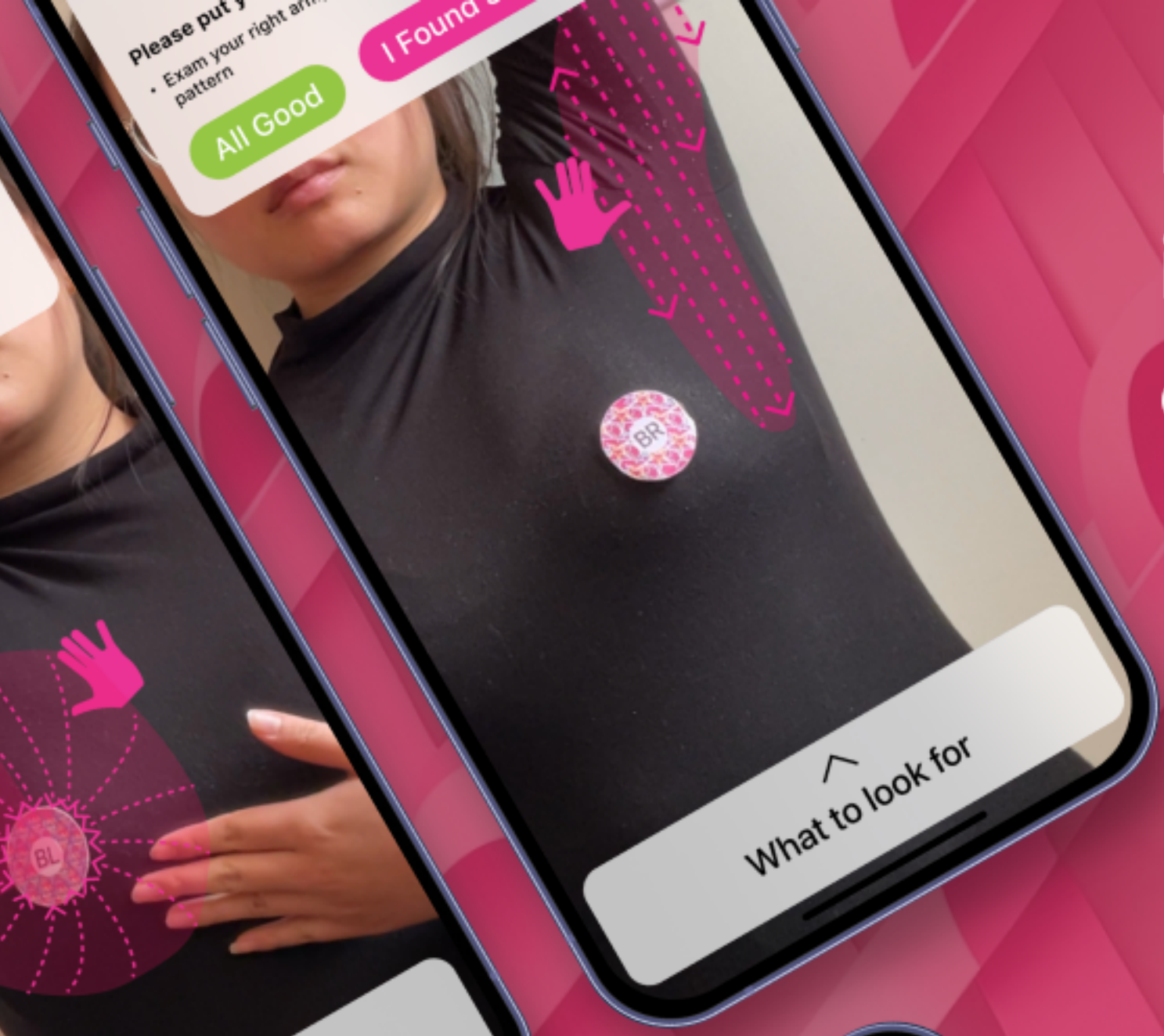
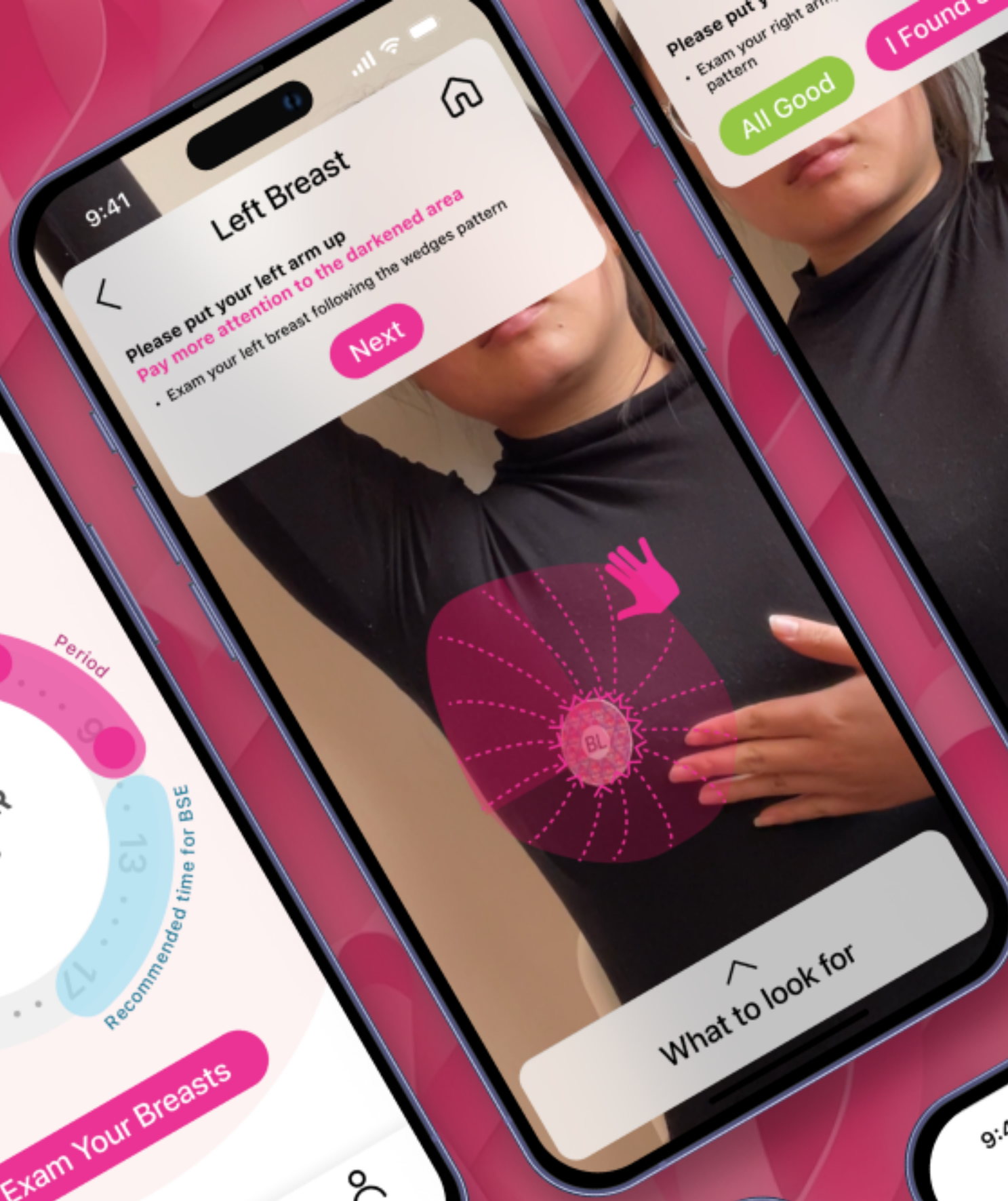
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Visualization of menstruation cycle



Simple onboarding for BSE personalization



Project BSE instructions on body



Report of BSE result and suggestions