

INFO B505: Informatics Project Management

Instructor: Prof. David Francis

Week 03: Project Proposal

Team 04

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CareEase – A Caregiver Companion App for Dementia Caregivers

Background

Caring for individuals with dementia presents numerous challenges, including medication management, tracking doctor appointments, and ensuring overall well-being. Many caregivers struggle with organizing critical information, leading to missed medications, forgotten appointments, and increased caregiver stress. The CareEase application aims to address these issues by providing an intuitive platform to help caregivers efficiently manage patient care.

Objectives

- Develop a mobile application that allows caregivers to schedule and receive reminders for patient medication and doctor appointments.
- Implement a secure and user-friendly dashboard for tracking patient health records, emergency contacts, and medical history.
- Test and refine the application with caregiver feedback to ensure accessibility and usability.

Scope

The project will result in a functional prototype of the CareEase application, including key features such as:

- Medication tracking with notifications
- Appointment scheduling with reminders
- Digital health record storage
- Emergency contact integration
- Caregiver support resources

Timeframe

| | Description of Work | Start and End Dates |
|-------------|---------------------------|---------------------|
| Phase One | Research & Wireframing | Feb 01 - Feb 28 |
| Phase Two | Development & Testing | Mar 01 - Mar 31 |
| Phase Three | Refinement & Final Review | Apr 01 - Apr 30 |

Project Budget

| | Description of Work | Anticipated Costs |
|-------------|---------------------------|---------------------|
| Phase One | Research & Wireframing | \$2500 |
| Phase Two | Development & Testing | \$5500 |
| Phase Three | Refinement & Final Review | \$3000 |
| | Total | \$ 11,000.00 |

Key Stakeholders

| | |
|-----------------|-----------------|
| Client | Eskenazi Health |
| Sponsor | David Francis |
| Project manager | Geetika Palande |

Monitoring & Evaluation

Project progress will be tracked through KPIs, milestone reviews, user feedback, and testing.

1. Key Evaluation Metrics (KPIs)

- Phase One: 15-20 caregiver interviews, 3-5 competitor analyses, approved wireframes, prototype tested.
- Phase Two: Core features functional, 85% positive feedback, <10 major bugs.
- Phase Three: 20+ beta testers, 80% usability success, 90%+ performance score, stakeholder approval.

2. Monitoring Process

- Weekly Reviews: Internal progress tracking every Friday.
- Bi-Weekly Stakeholder Reviews: Feature demos & feedback sessions.
- User Testing: Wireframe (Week 3), usability (Week 7), beta (Weeks 10-12), final tests (Week 13).

3. Evaluation & Post-Project Review

- Final Review (Week 13): Assess outcomes, present findings, plan improvements.
- Post-Launch Monitoring (May-June): Track adoption, retention, and caregiver feedback.

Approval Signatures

| | | |
|-----------------------|------------------------|------------------------|
| Eskenazi Health | David Francis | Geetika Palande |
| Project Client | Project Sponsor | Project Manager |

References:

Gaugler, J. E., Jutkowitz, E., Shippee, T. P., & Brasure, M. (2017). Consistency of dementia caregiver intervention classification: an evidence-based synthesis. *International psychogeriatrics*, 29(1), 19–30. <https://doi.org/10.1017/S1041610216001514>

Cheng S. T. (2017). Dementia Caregiver Burden: a Research Update and Critical Analysis. *Current psychiatry reports*, 19(9), 64. <https://doi.org/10.1007/s11920-017-0818-2>

Reuben, D. B., Romero, T., Evertson, L. C., & Jennings, L. A. (2022). Overwhelmed: a Dementia Caregiver Vital Sign. *Journal of general internal medicine*, 37(10), 2469–2474. <https://doi.org/10.1007/s11606-021-07054-3>