

Weekly Project Timeline and Updates

Context-Aware Diagnostic Notification Effectiveness in Problem Reporting

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B.S. Information Technology and Informatics

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Timeline Purpose

This timeline organizes the capstone work by calendar week and records the planned work, current status, evidence, and next action for every week from project initiation through final submission. Concrete due dates are used as the controlling deadlines because the course announcement applies the same week number to more than one calendar date. The timeline will be updated as work is completed so that schedule changes, risks, and evidence remain visible rather than being reconstructed at the end of the project.

The current status reflects work completed through October 17, 2026. Future entries identify planned work and expected evidence. A future activity is not represented as completed until the corresponding artifact or test record exists.

Deadline Summary

Portfolio Section	Due Date	Required Evidence
Project Planning	October 19, 2026	Project proposal, stakeholder map, project scope and outcomes, weekly timeline, and success measurements.
Project Design	October 26, 2026	Personas, stories or scenarios and storyboards, user task list, system information architecture, and applicable data model or normalization discussion.
Midterm Report and Presentation Video	November 2, 2026	All completed prior components and a recorded progress presentation.
Project or Prototype Development	November 23, 2026	System specification, software and platform description, multiple prototype versions, and testing evidence.
Usability Testing	November 30, 2026	Testing based on the user task list and success measurements, usability report, reflection, and final-version changes.

Portfolio Section	Due Date	Required Evidence
Final Prototype and User-Help Documents	December 7, 2026	Final prototype release and user-help documentation.
Final Report and Recorded Presentation	December 10, 2026	Final report, final presentation, and recorded presentation video.

Weekly Timeline and Update Record

Calendar Week 1: September 28 - October 4, 2026

Field	Weekly Record
Status	Completed
Primary focus	Project initiation and proposal consolidation
Planned work	Consolidate the capstone topic, define the reporting problem, connect the project to Information Technology and Informatics, establish the preliminary research questions, identify the proposed users and stakeholders, and begin the project plan.
Weekly update	The proposal foundation was assembled around context-aware diagnostic notification and the timing and appropriateness of end-user problem reporting. The relationship among the Helpdesk Button, Tier2Tickets, the notification, and user-controlled submission was clarified. Initial boundaries excluded production deployment, automatic diagnosis, and automatic ticket submission.
Evidence	Proposal body, problem definition, preliminary research questions, purpose and scope, and preliminary project-planning material.
Next action	Develop the research methodology, instruments, success measures, scenario logic, and detailed work estimate.

Calendar Week 2: October 5 - October 11, 2026

Field	Weekly Record
Status	Completed
Primary focus	Methodology, instruments, measurement, and pilot revision
Planned work	Develop the sequential mixed-methods methodology, technician interview guide, end-user survey, controlled usability-study design, decision classifications, event framework, privacy controls, success measures, and detailed timeline.
Weekly update	The methodology was structured around technician interviews, an anonymous end-user survey, and a controlled usability comparison. Draft instruments, decision classifications, T0 through T8 event categories, technical-readiness controls, risk register, and requirements traceability were created. Pilot feedback was used to revise questions concerning evidence loss, persistence, recurrence, false triggers, ticket context, survey wording, and notification control.
Evidence	Draft 3 research methodology and data-collection instruments, revised technician instrument, revised end-user survey, project success measurements, pilot-testing record, and detailed project work estimate.
Next action	Complete project-planning deliverables, confirm infrastructure feasibility, and establish the controlled

Field	Weekly Record
	Azure environment.

Calendar Week 3: October 12 - October 18, 2026

Field	Weekly Record
Status	In progress
Primary focus	Project-planning submission and controlled environment setup
Planned work	Finalize the proposal, stakeholder map, project scope and outcomes, weekly timeline, and success measurements. Establish the Azure Virtual Desktop environment and verify that the session host provides consistent resources and recoverable access.
Weekly update	The revised capstone final deliverable was updated with current deadlines, the Azure environment, recording-procedure clarification, Times New Roman formatting, black text, and non-collapsible headings. A stakeholder map was developed in Figma. The project-scope document and website-viewable PDF were created. Azure Virtual Desktop was configured with a Windows 11 Enterprise Standard B2as v2 session host in North Central US with 2 vCPUs and 8 GiB memory. Microsoft Entra join, agent health, private-network access, and browser connection were verified. An unnecessary Bastion deployment was removed to protect the student credit.
Evidence	Revised final deliverable, Figma stakeholder map, project-scope PDF, success-measurement document, weekly timeline, working host pool, available session host, and documented Azure configuration.
Next action	Publish and test the Project Planning site, then begin personas, scenarios, storyboard, task list, system architecture, and the applicable data structure.

Calendar Week 4: October 19 - October 25, 2026

Field	Weekly Record
Status	Planned
Primary focus	Project Design
Planned work	Create evidence-based personas, user stories or scenarios, visual storyboards, the usability-testing task list, system information architecture, and an applicable event-data model. Explain how technician requirements, end-user concerns, privacy constraints, and the reporting workflow led to the selected structure.
Weekly update	Not yet due as of the status date. Existing interview and survey plans, pilot findings, scenario sequence, Azure structure, and requirements traceability will serve as the design inputs.
Evidence	Personas PDF, scenarios and storyboard PDF, user task-list PDF, system information-architecture PDF, and data-model or normalization PDF.
Next action	Combine the completed planning and design evidence into the midterm report and recorded presentation.

Calendar Week 5: October 26 - November 1, 2026

Field	Weekly Record
Status	Planned
Primary focus	Midterm integration and early prototype implementation
Planned work	Integrate all planning and design components into the midterm report. Prepare the progress presentation and begin the bounded memory-pressure generator, notification interface, simulated Helpdesk Button workflow, and event-logging structure.
Weekly update	Not yet due as of the status date. Implementation will begin only after the design artifacts establish the intended user flow, event records, controls, and safety boundaries.
Evidence	Midterm report, recorded progress presentation, implementation repository or controlled prototype folder, and initial prototype demonstration.
Next action	Continue implementation and begin repeatable baseline and memory-pressure calibration.

Calendar Week 6: November 2 - November 8, 2026

Field	Weekly Record
Status	Planned
Primary focus	Prototype integration and technical calibration
Planned work	Integrate the memory-pressure process, detection logic, notification, simulated reporting workflow, event timestamps, stopping controls, resource release, and recovery verification. Run baseline and stress tests in the actual Azure session host.
Weekly update	Not yet due as of the status date. Exact T2, T3, delayed-submission, duration, allocation, and recovery values will be determined from repeated technical runs rather than selected arbitrarily.
Evidence	Prototype build, baseline measurements, memory-pressure calibration results, preliminary operational definitions, trigger logs, and recovery records.
Next action	Correct technical failures, refine thresholds, and prepare the study procedure and usability pilot.

Calendar Week 7: November 9 - November 15, 2026

Field	Weekly Record
Status	Planned
Primary focus	Technical readiness and study preparation
Planned work	Verify bounded resource use, progression consistency, threshold detection, persistence, notification timing, false-trigger control, explicit permission, duplicate suppression, logging completeness, manual and automatic stopping, release, and recovery. Assemble participant materials and pilot the complete procedure.
Weekly update	Not yet due as of the status date. Human-subject testing will not begin until blocking permission, privacy, safety, logging, stopping, release, and recovery requirements pass.

Field	Weekly Record
Evidence	Technical conformance checklist, finalized T0 through T8 definitions, approved scenario rules, pilot record, participant instructions, observer form, and study-readiness decision.
Next action	Conduct controlled sessions only after readiness requirements and applicable faculty or institutional review are satisfied.

Calendar Week 8: November 16 - November 22, 2026

Field	Weekly Record
Status	Planned
Primary focus	Controlled usability sessions and prototype evidence
Planned work	Conduct the approved usability sessions, maintain equivalent procedures between groups except for notification exposure, preserve coded participant-scenario records, and document deviations, exclusions, and technical events. Prepare the development section due November 23.
Weekly update	Not yet due as of the status date. The planned sample is 12 to 20 adult computer users, subject to approval and feasibility.
Evidence	System specification, platform description, prototype-version record, session checklists, coded event logs, questionnaire responses, deviation log, exclusion log, and development submission.
Next action	Complete data-quality review, calculate measures, identify themes, and make evidence-supported prototype revisions.

Calendar Week 9: November 23 - November 29, 2026

Field	Weekly Record
Status	Planned
Primary focus	Analysis, usability report, and final-version revision
Planned work	Calculate appropriate-decision, premature-submission, unnecessary-submission, active-condition, workflow, and latency measures. Analyze participant explanations and ratings. Document limitations, reflect on usability problems, and implement prioritized changes for the final version.
Weekly update	Not yet due as of the status date. Formal results will not be invented or added before approved collection and data-quality review are complete.
Evidence	Usability-testing report, quantitative summary, qualitative themes, success scorecard, reflection, revision rationale, and updated prototype version.
Next action	Finalize the prototype release, user-help documents, report, and presentation materials.

Calendar Week 10: November 30 - December 6, 2026

Field	Weekly Record
Status	Planned
Primary focus	Final prototype and documentation

Field	Weekly Record
Planned work	Stabilize the final prototype, verify the revised workflow, prepare user-help documents, update the implementation notes, and draft the final report and presentation using the completed evidence.
Weekly update	Not yet due as of the status date. Final materials will distinguish completed evidence from recommendations and remaining research needs.
Evidence	Final prototype candidate, regression or confirmation test record, user quick-start guide, notification-response guidance, administrator implementation notes, and near-final report.
Next action	Complete the December 7 release and conduct final quality assurance for the December 10 submission.

Calendar Week 11: December 7 - December 10, 2026

Field	Weekly Record
Status	Planned
Primary focus	Final release and submission
Planned work	Publish the final prototype and user-help documents by December 7. Complete the final report, final presentation, recorded presentation, portfolio links, and submission quality review by December 10.
Weekly update	Not yet due as of the status date. Final acceptance requires complete links, readable PDFs, traceable evidence, accurate limitations, and a recoverable prototype package.
Evidence	Final prototype release, user-help documents, final report PDF, final presentation, recorded video, updated landing page, and submission package.
Next action	Archive the approved project materials and preserve only the authorized research records for the required retention period.

Weekly Update Control

At the end of each calendar week, the weekly update field will be revised to describe completed work and evidence. When planned work moves to another week, the change will be recorded in both the affected week and the receiving week. Changes involving privacy, consent, explicit permission, technical thresholds, scoring rules, stopping, resource release, recovery, or data handling require documented review and cannot be accepted solely to preserve the schedule.

The timeline will not treat a future artifact as complete because a placeholder exists on the website. An item is complete only when the corresponding document, prototype, test record, video, or approved research record is available and the associated acceptance requirements have been satisfied.