

Milestone 1 Progress Evaluation - Draft

Crowdsourcing Code Comments with ChatGPT

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CSE 4101 - Milestone 1 - 28 September 2026

1. Project Information

Our project helps students and developers understand open-source C code. The source code stays read-only. AI explanations, human corrections, and votes are saved separately.

2. Current Milestone Progress

The table below shows what we finished for Milestone 1 and what still needs more work. The Ahmed and Mohammed percentages show our planned share of each task.

Task	Complete	Ahmed	Mohammed	To do
Tool research	100%	50%	50%	Confirm LXR requirement with advisor.
Small prototype / demo	100% for M1 demo	50%	50%	Do more live AI testing later.
Requirement Document	100% draft	50%	50%	Advisor review.
Design Document	100% draft	50%	50%	Advisor review.
Test Plan	100% draft	50%	50%	Run more tests later.
Source browsing prototype	35% of final release	50%	50%	Support more files and repositories.
Comments and voting	35% of final release	50%	50%	Add user identity and one vote per user.

3. What We Accomplished and Problems

Task 1 - Tool research

We looked at the main tools for the project, including source browsing, C parsing, database storage, AI calls, and Linux source links. The main question is how much direct LXR integration Professor Silaghi wants.

Task 2 - Small prototype / demo

The prototype can browse a small Linux sample, open a C function, show separate explanation cards, save a human correction, and keep votes after reload. The offline class demo can use saved Writer and Checker examples so it does not depend on a live AI call.

Task 3 - Requirement Document

We wrote the main requirements for source browsing, Writer and Checker behavior, human corrections, voting, errors, and evaluation. We still need advisor feedback on scope and priority.

Task 4 - Design Document

We wrote the system design, main software parts, database records, and simple screen mock-ups. We still need to confirm the final LXR and repository design.

Task 5 - Test Plan

We wrote normal and unusual test cases for the main requirements, including missing files, wrong source versions, missing API keys, AI failure, repeat voting, and database problems.

Task 6 - Source browsing prototype

The current sample includes a small group of Linux C files and selected functions. It is enough to show the idea, but it is not a full Linux browser yet.

Task 7 - Comments and voting

Human corrections and votes can be saved. The final version still needs user identity, one active vote per user, and a clear expert-review process.

4. Team Contributions

Ahmed Alzahrani: worked on project planning, source-code browsing ideas, website flow, document review, presentation work, and prototype testing.

Mohammed Zakry: worked on project planning, Writer and Checker ideas, database/comments/voting flow, document review, presentation work, and prototype testing.

For Milestone 1 we are showing the work as 50/50 overall. We can update the split if Professor Silaghi wants a different breakdown.

5. Plan for Milestone 2

Task	Plan
Source / LXR connection	Support a larger source tree and confirm the final LXR approach.
Writer agent	Run the real Writer call and save the result.
Checker agent	Pass the same source and saved Writer result to the Checker.
Database and comments	Keep comments linked to the correct function and revision.
Voting and identity	Move toward one active vote per user.
Testing	Test live AI errors, source errors, and database problems.

6. Discussion of Next Milestone

For Milestone 2, we want to move from the small demonstration to a more connected version. The main goal is to have a clear source flow, a working Writer call, a working Checker call, and saved results linked to the correct function.

We will keep the first working version small instead of trying to support all Linux at once. This will make the project easier to test and finish.

See Faculty Advisor Feedback below

7. Client Meeting Date(s)

September 28, 2026 - Milestone 1

8. Client Feedback and Advisor

Professor Silaghi

: Good start, but try to find the
professional standard for each report (when ask!!)
Requirement doc / Test doc.

10. Faculty Advisor Feedback on Current Tasks

Task 1: What I intend is not by integration but
source extraction and local maintenance & tagging

Task 2: Define formally the database stored (as a
contract) → Data model.

Task 3: → try to see a professional example
off requirements: define scenarios formally.

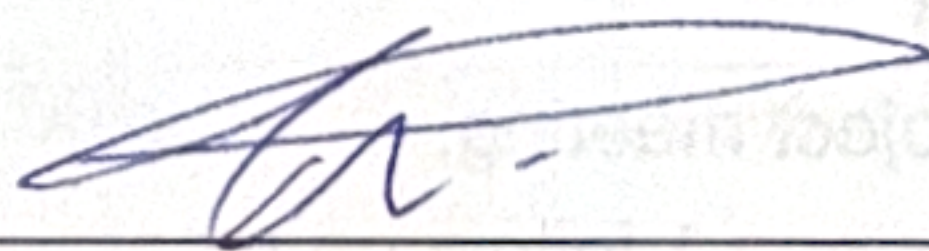
Task 4: → UML diagram. Data - Source - Contract
Visual.

Task 5: → include attacher (Gylys comments)

Task 6: → Should be refined after Data model
is stabilized.

Task 7: _____

Faculty Advisor Signature: _____



Date: _____

09/28/2026.