

Software Design Document

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Functional description

- This software is a Learning Management System for UHD students and admin.
- Assist in helping students manage their courses and grades.
- Assist in helping admin managing student's data.
- User limitation: data is store locally, application only runs on Windows (VB language).
- Student only has access to student info (QUERY).
- Admin can UPDATE, INSERT, DELETE, MONITOR all student's info.
- Once application window is opened, user must login to continue.
- Error handling: login info must match data; student, courses, grades, assignment must match data
- Changes are only update locally.

User interface

- Login frame: Username, password user input text field.
- Login frame: Title, UHD logo, Student/Admin login button.
- Student frame: displayed student info (id, name, courses, assignments, GPA).
- Admin frame: Add/Delete student buttons. Add/Delete course buttons.
- Admin frame: Add/Delete assignments. Update student grades.

Prioritization

- Admin able to UPDATE data.
- Admin able to DELETE data.
- Admin able to INSERT data.
- Admin able to QUERY data.
- Student able to QUERY data.
- Login functionality.
- Record integrity.

Goals and milestones

- Finish research into different application environment (IDE, languages).
- Create alpha version of application.
- Test alpha version.
- Create beta version.
- Test beta version.
- Release final application.
- Integrate GitHub.
- Upload all artifacts to Blackboard and GitHub.

- Research into different UML diagrams.
- Create rough draft of UML diagrams.
- Finish rough drafot of UML diagrams.
- Create first draft of UML diagrams.
- Finish frist draft of UML diagrams.
- Upload diagrams to GitHub.
- Integrate UML diagrams and application.
- Upload all diagram artifacts to Blackboard.