Class Diagram

LMS DB Connection (Login)

- -authenticated: bool
- -userID: int
- -givenName: string-familyName: string-userRole: int
- -userYear: int
- -LMS DB Connection()
- +authenticatedUser(string userName, string password)
- +DataSet getEligibleClasses()
- +DataSet getUsers()

Grades UserControl

- -assignmentID: int
- -courseID: int
- -assignmentDesc: string
- +CourseID: int
- +CourseDesc: string
- +turnedIn: string
- +grade: int
- -userID: int
- -grade: int
- +refreshGradesDataTable(): void
- +dqvGrades.Rows.Clear()
- +dgvGrades.Refresh()
- -dgvGrades_CellContentClick(object sender,

DataGridViewCellEventArgs e): void

 $-\ btn Save Grades_Click (object\ sender,$

EventArgs e): void

Class UserControl

- -courseID: int
- -userID: int
- -courseDesc: string +CourseID: int
- +CourseDesc: string -totalPoints: int
- +refreshAssignmentDataTable(): void
- +dgvAssignments.Rows.Clear()
- +dgvAssignments.Refresh()
- Class UserControl Load(object sender,
- EventArgs e): void
- -btnAddAssignment Click(object sender.

EventArgs e): void

-dgvAssignments_CellContentClick(object

sender, DataGridViewCellEventArgs e): void

StudentDashboard UserControl

- +userIDs: int
- + refreshStudentDashboardDataTable(): void
- +StudentDashInfo.Rows.Clear()
- +StudentDashInfo.Refresh()
- -StudentDashboard_UserControl_Load(object sender, EventArgs e): void

TeacherDashboard UserControl

- -senderGrid: var
- -TeacherDashboard_UserControl_Load(object sender, EventArgs e) : void
- + refreshTeacherDashboardDataTable(): void -TeacherDashInfo CellContentClick(object
- reacher Dashinto_CellContentClick(object sender, DataGridViewCellEventArgs e): void
- +TeacherDashInfo.Rows.Clear()
- +TeacherDashInfo.Rows.Refresh()

Dashboard

- -mode: int
- -rowIndex: int
- +Dashboard()
- +InitializeComponent();
- $-On Mouse Enter Register Button (object\ sender,$
- EventArgs e): void
- -OnMouseLeaveRegisterButton(object sender,
- EventArgs e): void
- -On Mouse Enter Change Password Button (object
- sender, EventArgs e): void
- -On Mouse Leave Change Password Button (object
- sender, EventArgs e): void
- -On Mouse Enter Assignments Button (object
- sender, EventArgs e): void
- -OnMouseLeaveAssignmentsButton(object
- sender, EventArgs e): void
- +setMode(int privilege): void
- -studentPanel visibleOn(): void
- -adminPanel visibleOn(): void
- -ModifyPanel visibleOn(): void
- -ModifyPanel visibleOff(): void
- -logoutButton_Click(object sender, EventArgs
 e): void
- -editButton_Click(object sender, EventArgs e):
 void
- -doneButton_Click(object sender, EventArgs
- e): void
 -registerCoursesButton Click(object sender,
- EventArgs e): void
- $-change {\tt PasswordButton_Click} (object\ sender,$
- EventArgs e): void
- -dataTable(): void
- -deleteButton_Click(object sender, EventArgs
 e): void

RegisterCourses_UserControl

- +userIDs: int
- +UpdatedUsers(): void
- + userIDs.Clear()
- +cbo.Users.Items.Clear()
- btnEnroll_Click(object sender, EventArgs e):
 void
- -dashboard.btnHome.PerformClick()
- + refreshCourseRegistrationDataTable(): void
- +dvgEnrollCourses.Rows.Clear()
- +dgvEnrollCourses.Refresh()