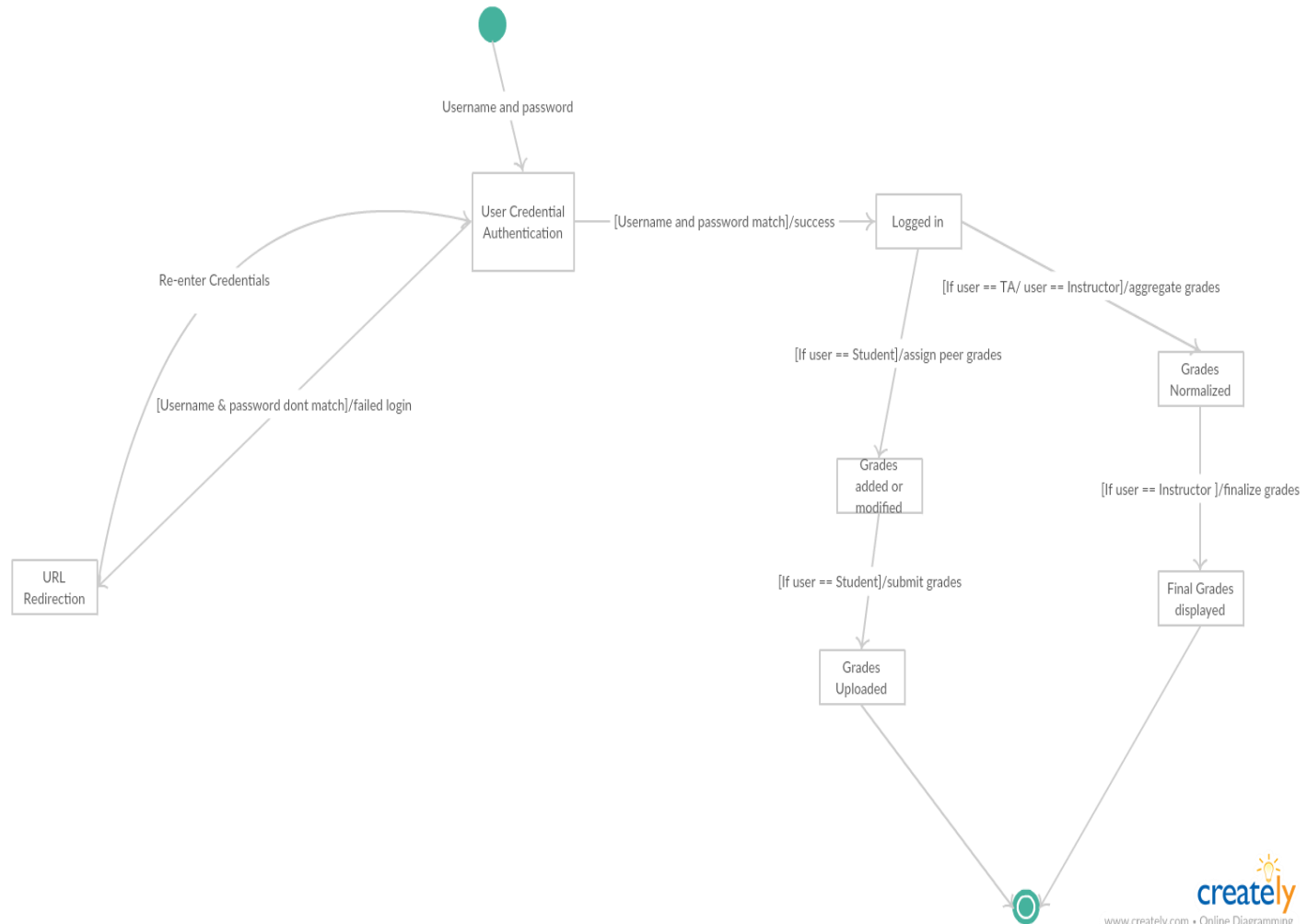# CSE542 - SOFTWARE ENGINEERING CONCEPTS

DESIGN DOCUMENT FOR PEER GRADING SYSTEM

- Arun Sharma
- Fengyu Wu
- Jayashree Chandrasekaran
- Harsh Nayak
- Sujit Singh

STATE DIAGRAM

Username and password

User Credential Authentication

[Username and password match]/success → Logged in

Re-enter Credentials

[Username & password dont match]/failed login

URL Redirection

[If user == TA/ user == Instructor]/aggregate grades

[If user == Student]/assign peer grades

Grades Normalized

Grades added or modified

[If user == Instructor]/finalize grades

[If user == Student]/submit grades

Final Grades displayed

Grades Uploaded

DATA DICTIONARY

Class Name	Description
User	The primary responsibility is to keep a track of user profile. This class includes registration and further authentication of the user.
Students	This class performs student - specific tasks. The primary responsibility of this class is to provide a dashboard for students to add, modify and submit their peer grades and further view their own grades.
Instructor	This class performs instructor - specific tasks. The primary responsibility is of this class is to finalize grades for discrepancies (if any) and to view grades of the students.
Grades	The primary responsibility is to keep the track of the grades. This class includes normalization of grades and permits the students to revise and finalize the peer evaluation of their group.

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CLASS DIAGRAM

User

+uid: int
+uname: string
-pwd: string
+contactEmail: email
+role: string
+groupId: int

+login(uid:int,pwd:string): boolean
+register(uid:int,uname:string,pwd:string,
          contactEmail:email,role:string,
          groupId:int): boolean
+getId(): int
+getUname(): string
+getRole(): string
-setUid(): boolean
-setUname(): string
-setPass(): boolean
-setRole(): string
+getIdByGroupId(): int array
+getUnameByGroupId(): string array

Student

+obj: User

+addScores(obj:User): boolean
+modifyScores(obj:User): boolean
+submitScore(obj:User): boolean
+viewScore(obj:User): float

Instructor

+gradesObj: Grades

+finalizeGrades(gradesObj:Grades): boolean
+viewGrades(gradesObj:Grades): string array

Grades

+grades: float
+uid: Student
+proj_no: int

+normalizeGrades(grades:float,uid:Student,
                 proj_no:int): float
+persisttoStagingGrades(uid:Student,grades:float,
                        proj_no:int): boolean
+persisttoFinalGrades(uid:Student,grades:float,
                      proj_no:int): boolean

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