AUTOMATED GRADING SYSTEM (Design Phase)

BY

MASDA (Group 1)

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System UML State Diagram

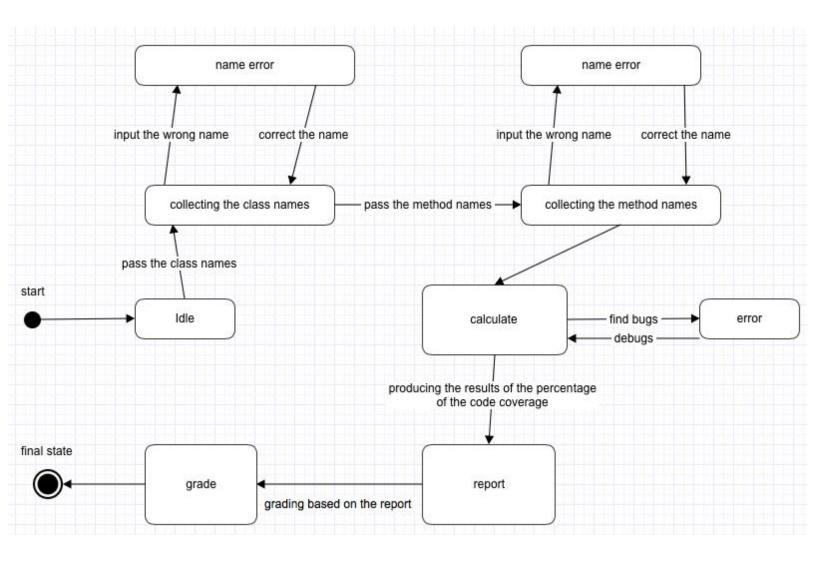


Figure 1: System State Diagram

Class UML State Diagram (ClassValidator)

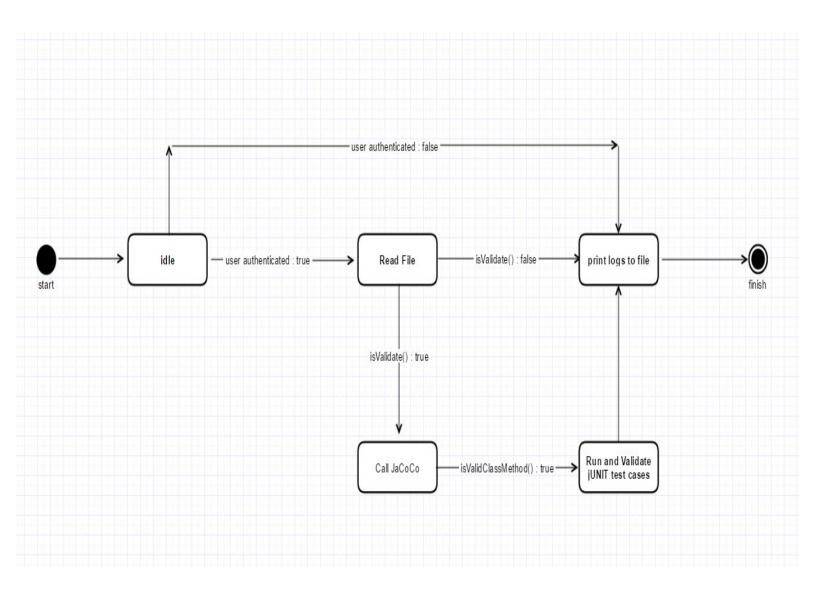


Figure 2: classValidator State Diagram

Class UML State Diagram(Authenticate)

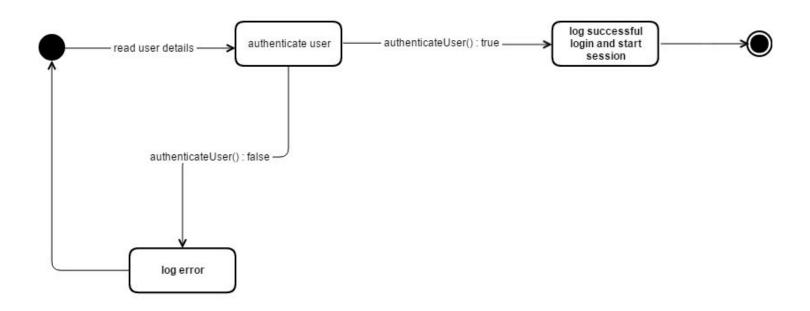


Figure 3: Class Authenticate State Diagram

UML Class Diagram(Authenticate)

CLASS DIAGRAM USER SUBSYSTEM «enumeration» User UserRoles -userld: Integer -userName: String -passCode: String Lecturer Grader +role: UserRoles TeachingAssistant +Contains +getUserId(): Integer +setUserId(): void +getUserName(): String +setUserName(): void +getPassCode(): String Authenticate -isAutheticated: boolean +setPassCode(): void +getRole(): UserRoles +setRole(): void +setAuthenticated(): void +isAuthenticated(): boolean +authenticateUser(): boolean VALIDATION SUBSYSTEM <<interface>> **SystemStates** Validator ValidationResultBean Idle -timeForCompletion: Time Calculate #validate(): boolean -percentageCoverage: Float +setValidationState(): void Error +evaluationTrace: File Report +getValidationState(): SystemState +isValidClassMethod(): boolean Grade +getTimeForCompletion(): Time +setTimeForCompletion(): void +getPercentageCoverage(): Float +setPercentageCoverage(): void +getEvaluationTrace(): File +setEvaluationTrace(): void +Contains +implements +1 1 UTILITY SUBSYSTEM SuperValidator StaticFileUtil +validationState: SystemStates +validationResult: ValidationResultBean +printingFile(File file): boolean +printResultsToFile(): boolean +readingFile(): ArrayList<Strings> +validate(): boolean +getValidationState(): SystemState +setValidationState(): void +isValidClassMethod(): boolean +extends +extends MethodValidator ClassValidator +validate(): boolean<<override>> +isValidClassMethod(): boolean<<override>> +validate(): boolean<<override>> +isValidClassMethod(): boolean<<override>>

Figure 4: UML Class Diagrams