<Project Name>

Object Design

<Version>

<Date>

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SE301 Software Engineering



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OBJECT DESIGN DOCUMENT

Object Design Document (ODD) describes object design trade-offs made by developers, guidelines they followed for subsystem interfaces, the decomposition of subsystems into packages and classes, and the class interfaces. The ODD is **used** to exchange interface information among teams and **as a reference during testing**. The audience for the ODD includes system architects (i.e., the developers who participate in the system design), developers who implement each subsystem, and testers.

Among three approaches to generate ODD, we follow “**ODD embedded into source code**” approach in SE301, since the other methods create many redundancies, inconsistencies.

The initial version of the ODD can be written soon after the subsystem decomposition is stable. Both packages and class interfaces can be generated from source code (comments!) by using a tool, which is named Javadoc. Keeping material for the ODD with the source code enables the developers to maintain consistency more easily and rapidly.

# Introduction

Describes the general trade-offs made by developers (e.g., buy vs. build, memory space vs. response time), guidelines and conventions (e.g., naming conventions, boundary cases, exception handling mechanisms), and an overview of the document. Interface documentation guidelines and coding conventions are the single most important factor that can improve communication between developers during object design. These include a list of rules that developers should use when designing and naming interfaces.

## Object Design Trade-offs

## Interface Documentation Guidelines

## Definitions, Acronyms, and Abbreviations

## References

References to existing systems, etc.

# Packages

# a. Models

|  |  |
| --- | --- |
| Quizmaker/Models/Course; | Course.swift |
| Quizmaker/Models/ErrorResponse; | APIErrorResponse.swift  ErrorMessage.swift  GradeErrorResponse.swift |
| Quizmaker/Models/ErrorResponse/Quiz; | QuizCreateErrorResponse.swift |
| Quizmaker/Models/ErrorResponse/User; | ChangePasswordErrorResponse.swift  EditProfileErrorResponse.swift  FieldErrorResponse.swift  RegisterErrorResponse.swift |
| Quizmaker/Models/Question/Enums; | QuestionType.swift |
| Quizmaker/Models/Question; | Answer.swift  ParticipantAnswer.swift  Question.swift |
| Quizmaker/Models/Quiz; | Quiz.swift  QuizParticipant.swift |
| Quizmaker/Models/Section; | QuestionDetailSectionModel.swift  QuizDetailSectionModel.swift  QuizSectionModel.swift |
| Quizmaker/Models/User; | ChangePassword.swift  EditProfile.swift  Participant.swift  SignUp.swift  User.swift |
| Quizmaker/Models/User/Enums; | Gender.swift  UserType.swift |

# b. View Controllers

|  |  |
| --- | --- |
| quizmaker/ViewControllers/Course; | CourseAddStudentViewController.swift  CourseQuizListViewController.swift  CourseRemoveStudentViewController.swift  CourseViewController.swift |
| quizmaker/ViewControllers/Home; | AdminViewController.swift  HomeViewController.swift  InstructorViewController.swift  StudentViewController.swift  UserViewController.swift |
| quizmaker/ViewControllers/Question; | AnswerQuestionsViewController.swift  QuestionCreateViewController.swift |
| quizmaker/ViewControllers/Quiz; | QuizCreateViewController.swift  QuizParticipantsAnswerViewController.swift  QuizUpdateViewController.swift |
| quizmaker/ViewControllers/Quiz/Detail; | QuizDetailViewController.swift |
| quizmaker/ViewControllers/Quiz/JoinedQuiz; | JoinedQuizzesChoiceViewController.swift  JoinedQuizzesViewController.swift |
| quizmaker/ViewControllers/Quiz/Public; | PublicQuizListViewController.swift |
| quizmaker/ViewControllers/User; | ChangePasswordViewController.swift  EditProfileViewController.swift  MyAnswersViewController.swift  MyLecturesViewController.swift  MyQuizListViewController.swift |
| quizmaker/ViewControllers/User/Authentication; | LoginViewController.swift  RegisterViewController.swift |
| quizmaker/ViewControllers; | KeyboardHandler.swift |

# c. View Models

|  |  |
| --- | --- |
| quizmaker/ViewModels; | ParticipantAnswerViewModel.swift |
| quizmaker/ViewModels/Course; | CourseAddStudentViewModel.swift  CourseListViewModel.swift  CourseRemoveStudentViewModel.swift |
| quizmaker/ViewModels/Question; | AnswerQuestionViewModel.swift |
| quizmaker/ViewModels/Quiz; | JoinedQuizListViewModel.swift  PublicQuizListViewModel.swift  QuizCreateViewModel.swift  QuizDetailViewModel.swift  QuizListViewModel.swift  QuizUpdateViewModel.swift |
| quizmaker/ViewModels/User/Authentication; | LoginViewModel.swift  RegisterViewModel.swift |
| quizmaker/ViewModels/User; | ChangePasswordViewModel.swift  EditProfileViewModel.swift  MyAnswerListViewModel.swift  MyLecturesViewModel.swift |

# d. Views

|  |  |
| --- | --- |
| quizmaker/Views/Course; | CourseTableCell.swift |
| quizmaker/Views/Helpers; | Checkbox.swift  IndicatorButton.swift |
| quizmaker/Views/Question; | MultichoiceTableCell.swift  TextTableCell.swift  TruefalseTableCell.swift |
| quizmaker/Views/Quiz; | MyAnswersTableCell.swift  QuizCreateQuestionTableCell.swift  QuizListTableCell.swift  QuizParticipantAnswerTableCell.swift |
| quizmaker/Views/Quiz/Detail; | QuizDetailTableCell.swift |
| quizmaker/Views/Quiz/Detail/Participant; | QuizParticipantDetailTableCell.swift  QuizParticipantTableCell.swift |
| quizmaker/Views/Quiz/Detail/Question; | QuizQuestionDetailTableCell.swift  QuizQuestionTableCell.swift |
| quizmaker/Views/Student; | StudentTableCell.swift |

# Class Interfaces

Describes the classes and their public interfaces. This includes an overview of each class, its dependencies with other classes and packages, its public attributes, operations, and the exceptions they can raise.