TECHNISCHE UNIVERSITÄT
CHEMNITZ

CRC Cards

Softwaretechnikpraktikum - Meilenstein 2

Fakultät für Informatik
Professur Softwaretechnik

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Zusammenfassung

CRC Cards

Database	-
create, read, update, delete exercise data create, read, update, delete user data	AbstractExercise AbstractUser

Server	-
serve webpages and related files provide API interface translate API requests into SQL queries	Database AbstractUser AbstractExercise

AbstractUser	-
reflect database structure provide database interface define API route	Database Server

User	AbstractUser
solve exercises	AbstractExercise

Administrator	AbstractUser
manipulate exercise data evaluate solutions	Database ExerciseCreator AbstractExercise User LearningProgress

AbstractExercise	-
reflect database structure provide database interface define API route	Database Server

GapTextExercise	AbstractExercise

SyntaxExercise	AbstractExercise

ParsonsPuzzleExercise	AbstractExercise

FindTheBugExercise	AbstractExercise

DocumentationExercise	AbstractExercise

OutputExercise	AbstractExercise

ProgrammingExercise	AbstractExercise

ExerciseTracker	-
track solving time	AbstractExercise

ExerciseEvaluator	-
evaluate solution store solution attempt and solving time	SourceCodeEvaluator AbstractExercise ExerciseTracker Database Administrator

SourceCodeEvaluator	-
parse user code execute user code in sandbox	ExerciseEvaluator AbstractExercise ExerciseTracker Database Administrator

LearningProgress	-
assemble learning progress create graphical representation	Database User AbstractExercise

ExerciseCreator	-
create exercise with hints and solution	Database AbstractExercise

HomePage	-
provide login	AbstractUser LoginArea

LoginArea	-
display components	TextField LoginButton SignUpButton ForgotPasswordButton

TextField	-
accept user input obfuscate password input	

LoginButton	-
trigger login process	Server

SignUpButton	-
trigger user creation process	Server

ForgotPasswordButton	-
trigger password reset process	Server