Full Sail University

Course: Design Patterns for Web Programming

<u>Assignment</u>: <u>UML Diagram</u>

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Scenario 1 description: A student registers in scheduled courses taught by teachers in a room at certain time and days.

Student
+first +last +dob +phone +email
+activate() +suspend() +notify()

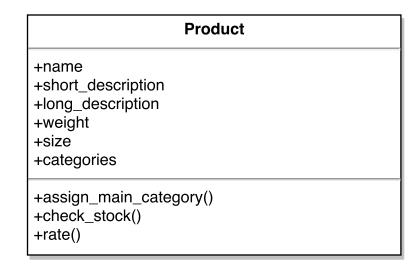| Schedule |
|---|
| +days
+time
+room
+teacher
+course
+student |
| +add()
+remove()
+update()
+print() |

Course
+name +description +requirements +department
+relate() +compare() +validate()

Teacher
+first +last +certification_number +phone
+certify() +notify() +hire() +fire()

Scenario 2 description: A customer orders products organized in categories.

Customer
+first +last +address +email
+register() +update_profile() +add_address()

Order
+date +shipping_address +billing_address +payment_method
+ship() +cancel() +suspend() +calculate_shipping()

Product
+name +short_description +long_description +weight +size +categories
+assign_main_category() +check_stock() +rate()

Category
+name +description +parent_category
+get_related_categories() +add_category_picture() +assign_parent_category()

Scenario 3 description: A doctor helps patients that are sick

Doctor
+first +last +pager +specialty
+create diagnostic() +get_qualifications() +rate()

Patient
+first +last +phone +insurance
+register() +set_appointment() +get_families()

Illness
+name +short_description +long_description +symptoms +code +severity_level
+get_cause() +get_symptoms() +set_severity()

Insurance
+name +beneficiaries +phone +web
+validate() +get_members() +get_copayment()