<<@Data>> User

- id: String <<@Id>>

- name: String

- email: String

- password: String

- createdAt: LocalDateTime

- isLoggedIn: boolean

<<@Data>> Task

- id: String <<@Id>>

- userId: String<<@DBRef>>

- title: String

- description: String

- status: TaskStatus

- category: TaskCategory

- deadline: LocalDateTime

- createdAt: LocalDateTime

- reminder: LocalDateTime

TaskStatus

+ PENDING

+ IN_PROGRESS

+ COMPLETED

+ OVERDUE

TaskCategory

+ PERSONAL

+ WORK

+ EDUCATION

UserRepository

<<extends MongoRepository>>

+ findByEmail(String email):
Optional<User>

+ existsByEmail(String email):
boolean

TaskRepository

<<extends MongoRepository>>

+ findAllByUserId(String userId):
List<Task>

Analytics

- id: String <<@Id>>

- userId: String<<@DBRef>>

- completedTaskCount: int

- pendingTasksCount: int

- totalTasksCount: int

- inProgressTasksCount: int

- overdueTasksCount: int

+ getRatioOfCompletedTo-
PendingTasks(): double

UserServices

+ register(RegisterRequest
request): RegisterResponse

+ logIn(LoginRequest request)
: LoginResponse

+ logOut(LogoutRequest reques
: LogoutResponse

TaskServices

+ createTask(CreateTaskRequest
request): CreateTaskResponse

+ deleteTask(DeleteTaskRequest
request): DeleteTaskResponse

+ deleteAllTask(DeleteAllTaskReq

```
                                              request): DeleteAllTaskResponse

    : LogoutResponse                          + getAllTasksFor(String userId):
                                              List<GetAllTasksResponse>
    + deleteUser(DeleteRequest)
    : DeleteResponse                          + getCompletedTasks(
                                              CompletedTaskRequest request):
                △                             CompletedTasksResponse
                ┆
                ┆                             + getInProgressTasks(
                ┆                             InProgressTaskRequest request):
                ┆                             InProgressTasksResponse
    ┌──────────────────────┐
    │    UserServicesImpl   │                 + getPendingTasks(
    ├──────────────────────┤                 PendingTaskRequest request):
    └──────────────────────┘                 PendingTasksResponse
                △
                ┆                             + getOverdueTasks(
                ┆                             OverdueTaskRequest request):
                ┆                             OverdueTasksResponse
                ┆
┌──────────────────────────┐                               △
│      UserController       │                              ┆
├──────────────────────────┤                              ┆
│ + register(RegisterRequest│                              ┆
│ request): ResponseEntity<?>│                             ┆
│                           │                 ┌──────────────────────┐
│ + login(LoginRequest      │                 │    TaskServicesImpl   │
│ request): ResponseEntity<?>│                ├──────────────────────┤
│                           │                 └──────────────────────┘
│ + logout(LogoutRequest    │                             △
│ request): ResponseEntity<?>│                             ┆
│                           │                              ┆
│ + deleteUser(DeleteRequest│                              ┆
│ request): ResponseEntity<?>│                             ┆
└──────────────────────────┘      ┌──────────────────────────────┐
                                  │         TaskController         │
                                  ├──────────────────────────────┤
                                  │ + createTask(CreateTaskRequest │
                                  │ request): ResponseEntity<?>    │
                                  │                                │
                                  │ + deleteTask(DeleteTaskRequest │
                                  │ request): ResponseEntity<?>    │
                                  │                                │
                                  │ + deleteAllTask(DeleteAllTaskReq│
                                  │ request): ResponseEntity<?>    │
                                  │                                │
                                  │ + getAllTasksFor(String userId):│
                                  │ ResponseEntity<?>              │
                                  │                                │
                                  │ + getCompletedTasks(           │
                                  │ CompletedTaskRequest request): │
                                  │ ResponseEntity<?>              │
                                  │                                │
                                  │ + getInProgressTasks(          │
                                  │ InProgressTaskRequest request):│
                                  │ ResponseEntity<?>              │
                                  │                                │
                                  │ + getPendingTasks(             │
                                  │ PendingTaskRequest request):   │
                                  │ ResponseEntity<?>              │
                                  │                                │
                                  │ + getOverdueTasks(             │
                                  │ OverdueTaskRequest request):   │
                                  │ ResponseEntity<?>              │
                                  └──────────────────────────────┘
```
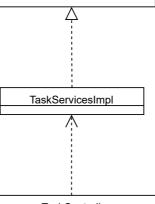
Address

Street

City

State

Postal Code

Country

Validate

Output As Label

0..1 ————————————————— 1

Student

Student Number

Average Mark

Is Eligible To Enroll

Get Seminars Taken

Professor

Salary