

User stories Mapping

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Group: E4






Year: 2





User cases



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C4 Diagrams

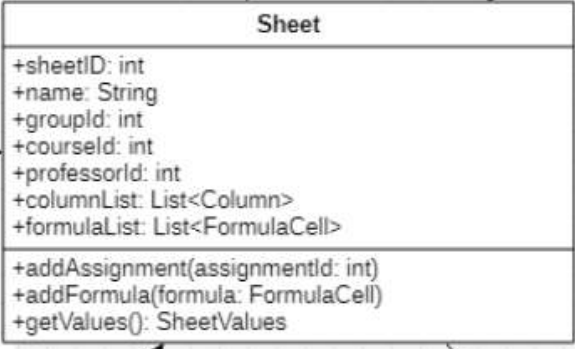


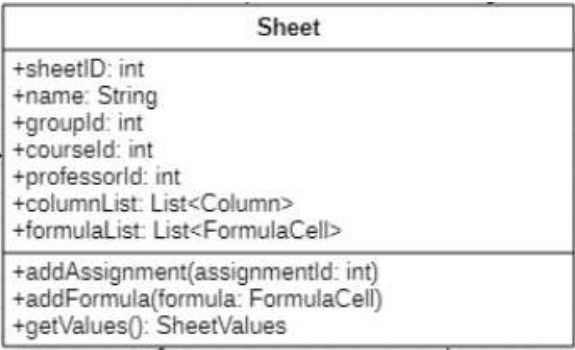
<p>Account platform:</p> <p>*As a* secretary, *I need to* create separate sections for each year (1st,2nd,3rd year)</p>	<p>Level 2: Container</p>  <p>No info yet in the component/code diagrams</p>
<p>*As a* secretary, *I need to* create separate sections for course in each year (examples: Math, OOP, Operating Systems)</p>	<p>Level 2: Container</p>  <p>No info yet in the component/code diagrams</p>
<p>*As a* secretary, *I need to* create separate groups (year-seminar ex. B1, B2, E3, E4) for each course</p>	<p>Level 2: Container</p>  <p>No info yet in the component/code diagrams</p>
<p>*As a* secretary, *I need to* be able to add students to a certain group (year/subject/group)</p>	<p>Level 2: Container</p>  <p>No info yet in the component/code diagrams</p>

<p>*As a* secretary, *I need to* be able to remove students from certain groups (year/subject/group)</p>	<p>Level 2: Container</p>  <pre> classDiagram class TicketManagement["Ticket Management"] { <<component>> } TicketManagement <--> " : CRUD operations on tickets, allows users to create tickets and administration staff to respond to them. </pre> <p>No info yet in the component/code diagrams</p>
<p>*As a* secretary, *I need to* be able to modify the groups of the students</p>	<p>Level 2: Container</p>  <pre> classDiagram class TicketManagement["Ticket Management"] { <<component>> } TicketManagement <--> " : CRUD operations on tickets, allows users to create tickets and administration staff to respond to them. </pre> <p>No info yet in the component/code diagrams</p>
<p>*As a* user, *I need to* be able to login into my account</p>	<p>Level 2: Container</p>  <pre> classDiagram class UserManagerService["User Manager Service"] { <<component>> } UserManagerService <--> " : Allows the users to log in, and stores all of the user related info. </pre> <p>No info yet in the component/code diagrams</p>
<p>Learning platform: *As a* teacher *I need to* add course/seminary materials (Slides/Text/Video/Images/Code)</p>	<p>Level 2: Container</p>  <pre> classDiagram class LearningContentManager["Learning Content Manager"] { <<component>> } LearningContentManager <--> " : CRUD operations on course work and seminars files. </pre> <p>No info yet in the component/code diagrams</p>
<p>*As a* teacher *I need to* create feedback-forms</p>	<p>Level 2: Container</p>  <pre> classDiagram class CommunicationService["Communication Service"] { <<component>> } CommunicationService <--> " : Allows users to participate in forums, private message each other, send emails. </pre> <p>No info yet in the component/code diagrams</p>

<p>*As a* teacher *I need to* be able to respond to the questions asked by the students in private</p>	<p>Level 2: Container</p>  <pre> classDiagram class CommunicationService { <<Container: Java>> Allows users to participate in forums, private message eachother, send emails } </pre> <p>No info yet in the component/code diagrams</p>
<p>*As a* student *I need to* access the feedback-forms created by the teacher</p>	<p>Level 2: Container</p>  <pre> classDiagram class CommunicationService { <<Container: Java>> Allows users to participate in forums, private message eachother, send emails } </pre> <p>No info yet in the component/code diagrams</p>
<p>Evaluation platform - grade sheets</p> <p>*As a* teacher *I need to* to be able to create a virtual catalog for a subject</p>	<p>Level 2: Container</p>  <pre> classDiagram class TaskGrader { <<Container: Java>> Centralize, filter and archive student grades, also allows editing of student grades } </pre> <p>Level 3: From the Component diagram for the Task Grader:</p>  <pre> classDiagram class SheetCollection { +sheetList: List<int> +addSheet(sheetId: int) } </pre>

	<p>Level 4:</p>  <p>The diagram shows a component named Sheet Collection with the stereotype [Component]. Its provided interface is Sheet handler: create, remove, rename, reorder sheets. It has a required interface (indicated by a small circle) that is not explicitly named.</p> <p>From the Code diagram:</p>
<p>*As a* teacher *I need to* add sheet pages in the catalog for each of my groups</p>	<p>Level 2: Container</p>  <p>The diagram shows a component named Task grader with the stereotype [Container: Java]. Its provided interface is Centralize, filter and archive student grades, also allows editing of student grades. It has a required interface (indicated by a small circle) that is not explicitly named.</p> <p>Level 3: From the Component diagram for the Task Grader:</p>

	<div data-bbox="828 210 1258 520"><p>Sheet Collection [Component] Sheet handler: create, remove, rename, reorder sheets</p></div> <p>Level 4:</p> <p>From the Code diagram:</p> <div data-bbox="828 636 1274 829"><pre>classDiagram class SheetCollection { +sheetList: List<int> +addSheet(sheetId: int) }</pre></div>
<p>*As a* teacher *I need to* be able to add or remove students from a sheet page of the catalog</p>	<p>Level 2: Container</p> <div data-bbox="828 909 1172 1140"><p>Task grader [Container: Java] Centralize, filter and archive student grades, also allows editing of student grades</p></div> <p>Level 3:</p> <p>From the Component diagram for the Task Grader:</p> <div data-bbox="828 1249 1258 1486"><p>Sheet [Component] Create, remove, edit lines and columns (Excel like)</p></div> <p>Level 4:</p> <p>From the Code diagram:</p>

	 <pre>classDiagram class Sheet { +sheetID: int +name: String +groupID: int +courseID: int +professorID: int +columnList: List<Column> +formulaList: List<FormulaCell> +addAssignment(assignmentID: int) +addFormula(formula: FormulaCell) +getValues(): SheetValues }</pre>
<p>*As a teacher* *I need to* be able create and remove columns in my sheets</p>	<p>Level 2: Container</p>  <pre>classDiagram class TaskGrader { <<Container: Java>> Centralize, filter and archive student grades, also allows editing of student grades }</pre> <p>Level 3: From the Component diagram for the Task Grader:</p>  <pre>classDiagram class Sheet { <<Component>> Create, remove, edit lines and columns (Excel like) }</pre> <p>Level 4: From the Code diagram:</p>  <pre>classDiagram class Sheet { +sheetID: int +name: String +groupID: int +courseID: int +professorID: int +columnList: List<Column> +formulaList: List<FormulaCell> +addAssignment(assignmentID: int) +addFormula(formula: FormulaCell) +getValues(): SheetValues }</pre>

As a teacher *I need to* be able to edit each cell from the sheet

Level 2: Container



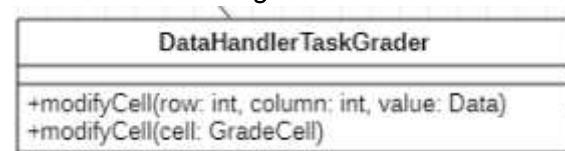
Level 3:

From the **Component** diagram for the **Task Grader**:



Level 4:

From the Code diagram:



As a teacher *I need to* be able to have statistics for any line or column of a sheet (ex: average, min, max)

Level 2: Container

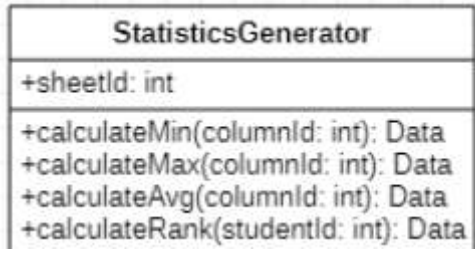





Level 3:

From the **Component** diagram for the **Task Grader**:



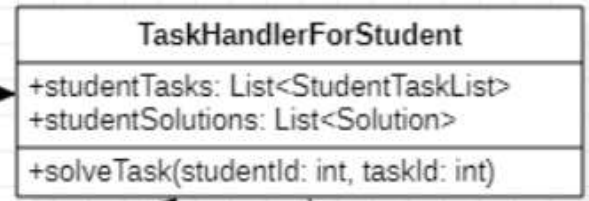

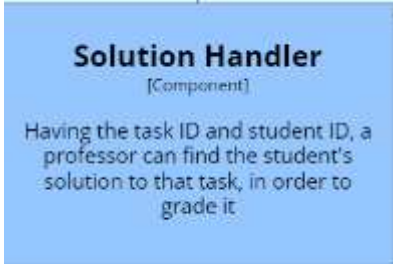
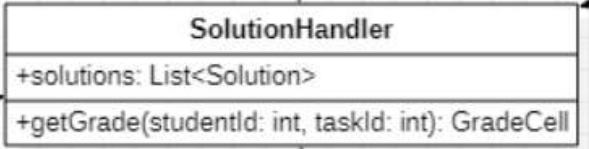
Level 4:

	<p>From the Code diagram:</p>  <pre> classDiagram class StatisticsGenerator { +sheetId: int +calculateMin(columnId: int): Data +calculateMax(columnId: int): Data +calculateAvg(columnId: int): Data +calculateRank(studentId: int): Data } </pre>
<p>*As a student* *I need to* be able to access ALL the sheets corresponding to ANY group</p>	<p>Level 2: Container</p>  <pre> classDiagram class TaskManager { [Container: Java] Deals with the evaluation process and grading } </pre> <p>No info yet in the component/code diagrams</p>

<p>Evaluation platform - assignment system</p> <p>*As a teacher* *I need to* create assignments (exam/test/oral evaluation/homework/exercise sheet) for a certain subject and group</p>	<p>Level 2: Container</p>  <pre> classDiagram class TaskManager { [Container: Java] Deals with the evaluation process and grading } </pre> <p>Level 3: From the Component diagram for the Task Manager:</p>  <pre> classDiagram class TaskHandlerForProfessors { [Component] Used to create, edit and remove tasks } </pre> <p>Level 4: From the Code diagram:</p>
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	<div><div><div>TaskHandlerForTeacher</div><div>+professorTasks: List<ProfessorTaskList></div><div>+addTask(teacherId: int, task: Task) +editTask(teacherId: int, taskId: int, newTask: Task) +removeTask(teacherId: int, taskId: int)</div></div></div>
<p>*As a teacher* *I need to* setup a certain type for an assignment (exam/test/homework/exercise sheet)</p>	<div><div>Level 2: Container</div><div><div>Task manager</div><div>[Container: Java]</div><div>Deals with the evaluation process and grading</div></div><div>Level 3:</div><div>From the Component diagram for the Task Manager:</div><div><div>Task Handler - for professors</div><div>[Component]</div><div>Used to create, edit and remove tasks</div></div><div>Level 4:</div><div>From the Code diagram:</div><div><div><div>TaskHandlerForTeacher</div><div>+professorTasks: List<ProfessorTaskList></div><div>+addTask(teacherId: int, task: Task) +editTask(teacherId: int, taskId: int, newTask: Task) +removeTask(teacherId: int, taskId: int)</div></div></div></div>
<p>*As a teacher* *I need to* be able to set a time interval for an assignment, composed of starting date and time and ending date of time</p>	<div><div>Level 2: Container</div><div><div>Task grader</div><div>[Container: Java]</div><div>Centralize, filter and archive student grades, also allows editing of student grades</div></div><div>Level 3:</div><div>From the Component diagram for the Task Grader</div></div>

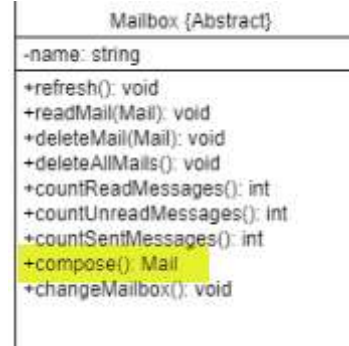
	<div data-bbox="829 205 1304 510"><p>Task Handler - for professors [Component]</p><p>Used to create, edit and remove tasks</p></div> <p>Level 4: From the Code diagram:</p> <div data-bbox="829 615 1360 1020"><p>Task</p><p>+taskId: int +name: String +start: LocalDateTime +end: LocalDateTime +questions: List<Question></p><p>+addQuestion(question: Question) +setStart(time: LocalDateTime) +setEnd(time: LocalDateTime)</p></div>
<p>*As a student* *I need to* be able to upload a solution for an assignment</p>	<p>Level 2: Container</p> <div data-bbox="829 1157 1172 1388"><p>Task grader [Container: Java]</p><p>Centralize, filter and archive student grades, also allows editing of student grades</p></div> <p>Level 3: From the Component diagram for the Task Grader</p> <div data-bbox="829 1507 1188 1745"><p>Task handler - for students [Component]</p><p>Used by students to list, filter, see their assigned tasks in order to solve them</p></div> <p>Level 4: From the Code diagram:</p>

	 <pre> classDiagram class TaskHandlerForStudent { +studentTasks: List<StudentTaskList> +studentSolutions: List<Solution> +solveTask(studentId: int, taskId: int) } </pre>
<p>*As a student* *I need to* be able to export the score of any assignment</p>	<p>Level 2: Container</p>  <pre> classDiagram class TaskManager["Task manager"] { [Container: Java] Deals with the evaluation process and grading } </pre> <p>Level 3: From the Component diagram for the Task Manager:</p>  <pre> classDiagram class SolutionHandler { [Component] Having the task ID and student ID, a professor can find the student's solution to that task, in order to grade it } </pre> <p>Level 4: From the Code diagram:</p>  <pre> classDiagram class SolutionHandler { +solutions: List<Solution> +getGrade(studentId: int, taskId: int): GradeCell } </pre>
<p>Communication platform a) webmail *As a* User *I need to* create and send email messages to a single user</p>	<p>Level 2: Container Level 3: From the Component diagram for Email:</p>



Level 4:

From the **code** diagram:

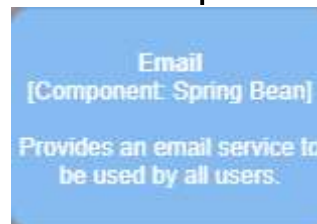


As a User *I need to* attach files to my email

Level 2: Container

Level 3:




From the **Component** diagram for **Email**:

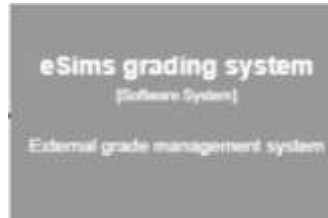




Level 4:



From the **code** diagram:








<p>*As a* User *I need to* filter my emails based on different criteria (unread/sort by date/sort by group)</p>	<p>-Level 2: Container</p>  <p>The diagram shows a component box for 'Communication Service' with the stereotype '[Container: Java]'. Inside the box, the text reads: 'Allows users to participate in forums, private message eachother, send emails'. Above the box, there is a small diagram showing a component with a provided interface (half-circle) and a required interface (half-circle) connected by a dashed line.</p> <p>No info yet in the component/code diagrams, filtered by default by date</p>
<p>*As a* Secretary *I need to* create mailing lists</p>	<p>-Level 2: Container</p>  <p>The diagram shows a component box for 'Communication Service' with the stereotype '[Container: Java]'. Inside the box, the text reads: 'Allows users to participate in forums, private message eachother, send emails'. Above the box, there is a small diagram showing a component with a provided interface (half-circle) and a required interface (half-circle) connected by a dashed line.</p> <p>No info yet in the component/code diagrams</p>
<p>*As a* teacher/Secretary *I need to* create and send text messages to a group of users</p>	<p>-Level 2: Container</p>  <p>The diagram shows a component box for 'Communication Service' with the stereotype '[Container: Java]'. Inside the box, the text reads: 'Allows users to participate in forums, private message eachother, send emails'. Above the box, there is a small diagram showing a component with a provided interface (half-circle) and a required interface (half-circle) connected by a dashed line.</p> <p>No info yet in the component/code diagrams</p>
<p>Communication platform b)teams</p> <p>*As a*user *I need to*create a video meeting</p>	<p>No implementation info available.</p>
<p>*As a*user *I need to*be able communicate via text during a meeting</p>	<p>No implementation info available.</p>





As a user *I need to*be able to create an invite link for my meeting	No implementation info available.
*As a*user *I need to*be able to restrict the access to my meeting	No implementation info available.
*As a*user *I need to*be able to create recurring meetings	No implementation info available.
*As a*user *I need to* be able to set alerts for meetings	No implementation info available.
Catalog platform *As a* student *I need* to see my academic performance	 <p>Outside of our app</p>
As a student *I need* to see the ranking of my year / group	No implementation info available.
As a student *I need* to see all the points in my year in descending order (anonymously)	Level 2: Container

	 <p>No info yet in the component/code diagrams</p>
As a secretary *I need* to generate statistics about the students' grades	<p>Level 2: Container</p>  <p>No info yet in the component/code diagrams</p>

As a student/teacher *I need to* create tickets in the secretariat platform	<p>Level 2: Container</p>  <p>No info yet in the component/code diagrams</p>
As a student/teacher *I need to* assign a priority/severity (Low/Medium/High) to my tickets	<p>-Level 2: Container</p>  <p>No info yet in the component/code diagrams</p>

<p>*As a* student/teacher *I need to* check the ticket status I've made</p>	<p>-Level 2: Container</p>  <p>No info yet in the component/code diagrams</p>
<p>*As a* secretary *I need to* see all the tickets made</p>	<p>-Level 2: Container</p>  <p>No info yet in the component/code diagrams</p>
<p>*As a* secretary *I need to* edit the ticket status (New/In progress/Solved)</p>	<p>-Level 2: Container</p>  <p>No info yet in the component/code diagrams</p>
<p>*As a* student/teacher/secretary *I need to* reply to a ticket</p>	<p>-Level 2: Container</p>  <p>No info yet in the component/code diagrams</p>
<p>*As a* secretary *I need to* sort the tickets</p>	<p>-Level 2: Container</p>  <p>No info yet in the component/code diagrams</p>

<p>*As a* secretary *I need to* create templates for the tickets</p>	<p>-Level 2: Container</p> <div data-bbox="824 344 1170 573"> <p>Ticket Management [Component: Java]</p> <p>CRUD operations on tickets, allows users to create tickets and administration staff to respond to them.</p> </div> <p>No info yet in the component/code diagrams</p>
<p>Administrative platform</p> <p>*As a* secretary *I need to* create the timetable of the faculty</p>	<p>-Level 2: Container</p> <div data-bbox="824 783 1170 1012"> <p>Ticket Management [Component: Java]</p> <p>CRUD operations on tickets, allows users to create tickets and administration staff to respond to them.</p> </div> <p>No info yet in the component/code diagrams</p>
<p>*As a* secretary/teacher *I need to* distribute the activities conducted in the faculty</p>	<p>-Level 2: Container</p> <div data-bbox="824 1190 1170 1419"> <p>Ticket Management [Component: Java]</p> <p>CRUD operations on tickets, allows users to create tickets and administration staff to respond to them.</p> </div> <p>No info yet in the component/code diagrams</p>
<p>*As a* secretary/teacher *I need to* be able to add events in the timetable</p>	<p>-Level 2: Container</p> <div data-bbox="824 1596 1170 1824"> <p>Ticket Management [Component: Java]</p> <p>CRUD operations on tickets, allows users to create tickets and administration staff to respond to them.</p> </div> <p>No info yet in the component/code diagrams</p>

<p>*As a* secretary/teacher *I need to* set detailed information for an event (ex. duration/date/place/description/nr. of participants/guests etc)</p>	<p>-Level 2: Container</p>  <p>No info yet in the component/code diagrams</p>
<p>*As a* student *I need to* be able to see the timetable of the group where I am assigned</p>	<p>-Level 2: Container</p>  <p>No info yet in the component/code diagrams</p>
<p>*As a* student/teacher/secretary *I need to* see the entire timetable</p>	<p>-Level 2: Container</p>  <p>No info yet in the component/code diagrams</p>
<p>*As a* student/teacher/secretary *I need to* be able to filter the timetable based on multiple filters (Year/Semi-Year/Group/room/Day/Time/teacher)</p>	<p>-Level 2: Container</p>  <p>No info yet in the component/code diagrams</p>

As a secretary *I need to* distribute the exams of the faculty

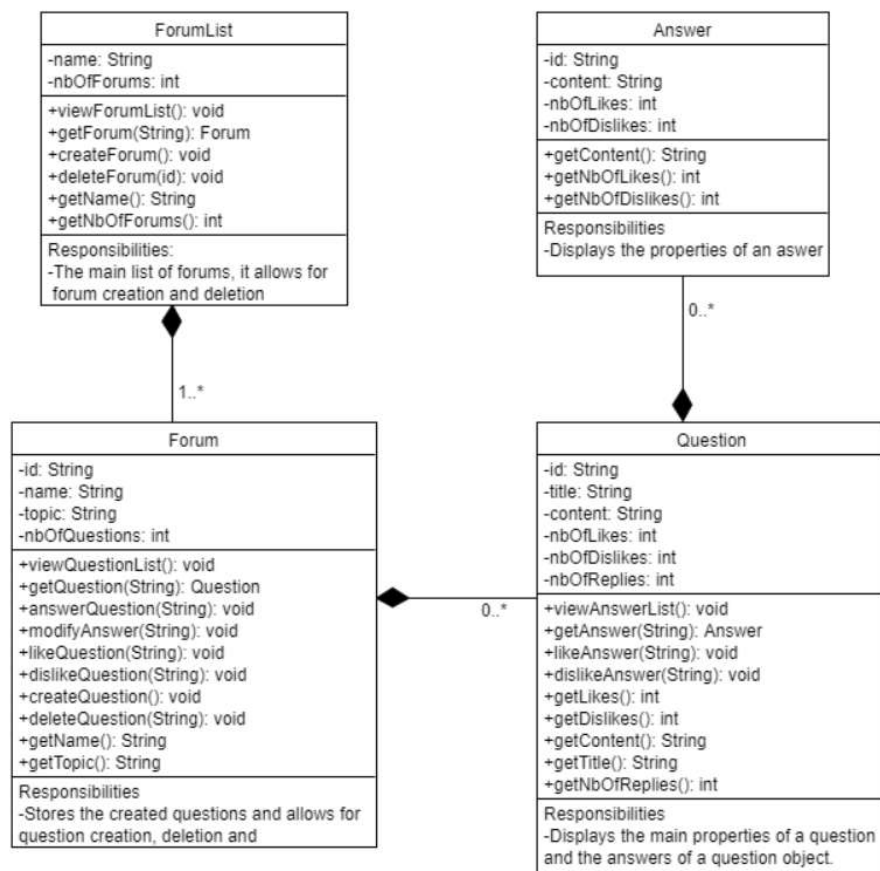
-Level 2: Container



No info yet in the component/code diagrams

Observations:

+forums that should be implemented and backlogged;



- all secretariat operations have been added under ticket manager;

- not sure about the implementations for video calling/video meetings inside our app;

-