

Project of Software Development

Class 14 to 18: 20th March to 8th April
Group Project KickOff and Sprint 1

Please be seated in the room
in teams so that you can
debate and I can talk to each
team individually



Group project

- OutSystems server:
 - edulab02.outsystemsenterprise.com
 - You received in the first lecture an email to create your account in this environment
- From the next lab onwards, please sit in groups in the classroom so that you can discuss and I can talk to each group individually
- I have created a Team in Microsoft Teams for each group:
 - Use it to communicate with me on any issue related to the group project.
- The homeworks will be delivered in a [online Excel book](#) (already shared with you)
- On March 27th, please upload your EBUSI presentation to Your Team/Files



Sprint 1

Please download from Fenix/Lab material “Group project – sprint 1”

The goal of this sprint is to set the basis for the project:

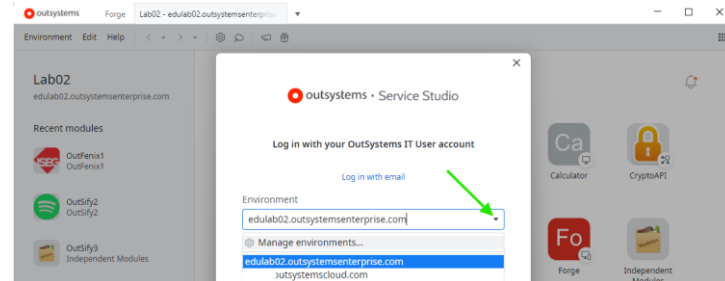
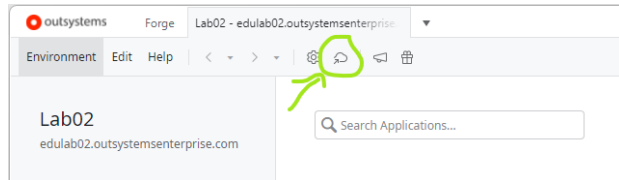
- Define the project scope
- Define and implement the visual appearance
- Define the User stories to be implemented in the project
- Define and start implementing the landing pages
- Define and implement the database

Duration: 20th March to 8th April

Environment setup

- You will not be using your personal environment for the group project
- All students: you will use the EduLab02 environment for the group project
- All students: ensure you have access to EduLab02

To switch between environments (EduLab02 and your Personal Environment) use the “cloud” button on Service Studio and expand the list to select:



Environment setup

Select **1 member of your team** who will:

- Open ServiceStudio and connect to edulab02.outsystemsenterprise.com using your ISEG student email and the newly created password
- Select the Application with your project nickname
- **Click on Edit and set the icon and color**
- **Create a new module** clicking on “Add Module” and name it according to your project nickname: “Nickname_BO”
 - Create the roles of your WebApp (as defined in your homework) and set its “Public” property as “Yes”
 - **Publish the module.**
- When all the steps above are finished, **create a new module** named “Nickname”

Environment setup

- All students: open ServiceStudio and confirm you see your Application and the 2 modules “Nickname_BO” and “Nickname”
- Modules purpose:
 - “Nickname_BO”: here you will create the entities, define the theme and other reusable items (menu, header, footer, etc.). Also here you will implement the stories related to the App administrator
 - “Nickname”: here you will implement the stories related to the remaining user roles and the landing pages
- For your information:
 - You can see and modify all modules of your team but you cannot see the modules of other teams
 - I can see all modules of all teams
 - In ServiceStudio, you may get a message "Incompatible or missing dependencies found" when publishing. This happens if someone else has modified the module. See the “OutSystems Development | Troubleshooting” team post on the Team Group class for the steps to follow.

Split the work among the team members

Categories of work to split among the team members:

- **Database definition** in “Nickname_BO”
- **Visual appearance** in “Nickname_BO”: font (type, size, colour), background colour, logo, headers, footer. Most important definition: page structure, including menu
- The **user role App administrator journey** in “Nickname_BO”
- The **remaining user roles’ journey** in “Nickname”
- The **landing pages** in “Nickname”

Split the work among the team members

- Define how you will split the work among team members:
 - Everyone does a bit of everything (not recommended)
 - Doubles: each category is implemented by 2 students (recommended, in order to help each other and have someone to debate with)
 - Singles: each category is implemented by 1 student (ensure you get team help anytime)
 - Other strategies

Sprint 1 - subgroup A: deliverables by 8th April

1. Define and start implementing in ServiceStudio the landing pages:

- Define the landing page for each end-user role
- Landing page definition: is a single web page that appears in response to clicking on a search engine optimized search result, marketing promotion, marketing email or an online advertisement. More at https://en.wikipedia.org/wiki/Landing_page
- Important: It is quite common for the landing page to not follow the page structure defined for your site. It is your aesthetic decision whether or not to follow the page structure.
- Tip: find the landing page of the site you are imitating. Ex: Uber's landing page is <https://www.uber.com/pt/en/ride/>
- Note: If you think your Business Idea doesn't need a Landing Page and a homepage is enough, that's fine. In such a case, implement the homepage
- All images must have less than 150Kb. Consider the layout on both PC and mobile screens



Pre-build menu

Sprint 1 - subgroup A: deliverables by 8th April

3. Use the OutSystems accelerators as much as possible:

- **Templates:** when adding a new Web Screen in ServiceStudio, use the screen templates available. More info at <https://outsystemsui.outsystems.com/outsystemsuiwebsite/ScreenOverview?RuntimeId=2>
- **UI patterns:** photo gallery, carousel, accordion, cards, date picker, range slider, search, video, tabs, progress circle, rating, swipe events, button group, etc.). More info at <https://outsystemsui.outsystems.com/outsystemsuiwebsite/>
- **Pre-build menu**

Sprint 1 - subgroup B: deliverables by 27th March

Fill-in your Project Sheet “Database”

- Define the business concepts:
Which business items have to be handled to accomplish the goal of the business area?
 - Offer. Ex: categories, sports, food, skills, domestic services, etc.
 - Inventory. Ex: stock, calendar availability, service/product location, etc.
 - Demand. Ex: bidding, simple buy, inquiry & chat, etc.
 - Pricing. Ex: none, per service/product, per duration, per calendar day, etc.
 - Users: consumer, provider
 - Other. Ex: reviews (to buyers, to sellers, to the product/service?), ranking algorithm to show the list of providers, or products, or services to buyers, calendar to manage availability, etc.

Expected total effort: 30 to 60 minutes

Important notes: check your Excel book

Sprint 1 - subgroup B: deliverables by 8th April

Don't start before agreeing with the professor on the Business Concepts.

1. In ServiceStudio, implement a first draft of the project's database
 - Take into consideration the Business Concepts defined previously
 - Ensure that the database is normalized (3rd normal form, see the bibliography from lecture 6)
 - Pay special attention to the data type, length and mandatory attribute
 - Consider only the selected User Stories
2. Implement the CRUD for the configurable entities (products, services, prices, etc.)