

APL Project Sprinto Sweden AB

Period

3 months

Manager at Lexicon

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Background

Lexicon IT Professionals provides various types of IT Training, after completion of the training, 1–3 months of practice is included. Also called APL. Lexicon today has a need to speed up the process, when it comes to finding internships and CV matching to companies that need interns or are in need of hiring.

Short description

The administration at Lexicon Liljeholmen needs a central way to administer information and statistics. What will be developed is a web-based aid that will be able to administer the following.

How many students get internships/work. Was there an internship/work. As well as information about which certification(s) the student has taken.

Purpose

The purpose of the requirements specification is to create a basis for a web-based application that will streamline the provision of work placements (APL) after the course has been completed.

the application must:

- Enable a quick and easy way to find possible internship companies
 - Sort and filter on internship companies
 - See what skills the company has applied for in the past •
- Add new students via Excel file (according to template)
- Add new students manually
 - Quickly search for students' skills in order to be able to match more efficiently
 - Quickly and efficiently be able to perform matches of registered CVs and sought-after skills
 - Ensure that matched CVs are quickly available where the skills are sought
 - Comply with GDPR students must be able to request saved data and also receive this permanently deleted.
 - (Extra) Logged-in students can edit their data and upload a new CV
 - (Extra) Enable companies to search for key competence

- (Extra) Ensure that contracted companies can quickly establish a dialogue with the student behind selected

Resume

- (Extra) Create customized mailings via email

Requirement

- The application must be built in NET 7 and the basic architecture must include Blazor underlying API
- Microsoft SQL Server
- ORM - Entity Framework Core
- Authentication with Duende IdentityServer
- The project's source code must be managed with GIT

Functionality

- It must be possible to register companies.
 - Companies must be registered with Company name
 - Contact details
 - Information on whether the company has accepted interns/employees • What class the student came from and when
 - Other information
- It must be possible to search/filter companies as above
- Each class in the Lexicon should have a page with information about the name of the class and between which date it is in progress.
- Students on current courses can be saved with current rules for GDPR
- Possibility to anonymize students when courses are archived according to GDPR (Possibly when we stop matching or when an internship or job is achieved)
- You must be able to see a student's contact details (name, email, phone number, case number, social security number, postal address).
- Ability to search by keyword. Both to filter between students and companies.
- Automatically match the best candidates to each company based on skills and previous experience
- Statistics for each individual class but also for all classes in total.
- Statistics for each type of course (eg .NET) one or more course rounds.

- From the class view, it should be possible to provide all students with the following information
 - Have submitted an updated CV
 - Has received an internship/work
 - (Knowledge level of the student according to a three-point scale red, yellow or green)
- Information about certification: which certificate, when they have to write, whether they have been approved or not, if they choose not to write.
- Which companies do the students do APL with and which dates it takes place.
- If they got employment and which company they got it at.
- All data entered must be able to be edited/deleted
- Ability to import a batch of students from Excel documents (name, email, phone number, case number and linked to a new class)
- (Links to possible APIs from the Employment Service's site).
- Statistics (Per class and also total over selected time period)
 - Available technical competence in admitted students •
 - History of the number of internship positions filled
 - Number of students in work

Utility

The system must be easily accessible. As far as possible, use predefined values, e.g. “dropdown” menus or autocomplete

Error handling

Validation of forms

- Mandatory fields not filled [action] •
- Incorrect format of filled field [action]

Project methodology

The work must be carried out according to Scrum.

- 2 or 3 week sprints
- Scrum boards
- User stories and tasks
- Daily stand-up
- Sprint planning •
- Product Backlog
- Sprint demos

See previous documents for the LMS project how we worked there

Git

The work must be done with feature branches

Pull requests must be used when merging against development or main

Planning work

ER-Diagram (For the functionality mentioned above)

Wireframes for key views

Interview of the users (Lexicon's administration, APL Team) to ensure which functionality is most important. As well as validating that the UI works in the best way.