

Technical Assessment

Please send the code and E-R diagram via email or push it to the public GitHub repository or share it with **mile-janev**

1. E-R diagram

Draw an E-R diagram of a system that provides communication between the users of 2 companies.

We have 2 types of companies in our system: Brokers and Vendors. The companies have users employed at them, one user can work in only one company and only one of the users in the company is the primary user.

The conversations can be started either by a broker or by a vendor's primary user. Each conversation must have at least one broker and one vendor, but the maximum number of users in one conversation is not limited. The conversation must have a topic, we need to know who started the conversation, between which companies, and when. Also, conversations can be archived by the primary user who started the conversation.

Messages in the conversation can be textual, file uploads (the number of uploaded files per message is not limited), or can contain both (text and multiple files).

Also, the users need to know when they have new unread messages.

2. Technical task

Build a small web application using PHP or some PHP framework, MySQL, HTML, CSS, jQuery.

Try to write clean code, using Repository-Service design pattern and SOLID principles.

1. Build a small form for storing data in the database. The form needs to have 4 fields:
 - Full Name
 - Email
 - Phone
 - Date of Birth
2. Display the results in a table, with mailto link for email and the current age of the user.

Bonus:

1. Validate the form submissions
2. Pagination of 10 records per page

3. Scoping task

We have a system where the companies can log in and manage their profiles. Currently, within the company profile, they can add a single email address, which is used for all communication that is sent by the system to the company.

We have a requirement to enable the company to add multiple email addresses, so they can be used for different types of communication (marketing, billing, etc...).

List all the changes that you think must happen to fulfill this requirement. Share any details on how you would approach this requirement. Feel free to insert any assumptions on the current implementation for the items that don't seem clear to you.