**In the following the task definition:**

It's nice that you decided to do a test with us. We would like to significantly improve our asset management system in dirico.io. This includes an intelligent folder structure as well as the connection to Azure Cognitive Services. Users can upload images and videos to dirico.io, which are then automatically scaled and saved in the background to all required scales and formats of the individual networks such as Facebook and Twitter (variants).

Your task consists of the following **requirements**:

* Building a (database) structure in which we can map the following
  + Folder structure, with n depth
  + Asset with multiple variants
  + Storage of asset meta data
  + Saving assets in azure blob storage
* Web API
  + Saving a new asset
  + Automatically create and save variants
  + Generation and storage of asset meta data
  + List of folder structure and assets
* Azure Cognitive Services
  + Creation of the impression formats (=variants)
  + Creation/Extraction of meta data
* Frontend
  + Uploading assets
  + In the asset overview you see only the main asset, in the detail view you see the different variants.
  + Hierarchical asset media browsing
    - Folder navigation
    - Thumbnail preview
    - Large asset preview (images, videos)

**Basics:**

Technology:

* C#, .Net Framework Full or .Net Core.
* React, Typescript, Material UI
* SQL Server (for relational data storage)

**Submission:**

**26.06 EOBD**

Otherwise you are completely free regarding the architecture, design and used technologies and libraries. If possible, you are welcome to use your own subscription to Azure to access the Cognitive Services. Otherwise, we can send you an invitation. If you have any questions, you can always contact us.

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Have fun!