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ReGeneration Academy on
CLOUD TOOLS & TECHNOLOGY // VOL.4

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Project Assignment

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Contents

FundRaiser - Crowdfund Project

1. Project general description

You have been given the opportunity to work for a big client. The task at hand is to **create a crowdfunding platform** (like KickStarter or Indiegogo) for the Web where one, **the Project Creator**, could share their wildest idea and others, **the backers**, could contribute financially to see it happening. The platform that will be developed will enable the stakeholders to have access to information concerning the projects, to oversee the progress and perform their actions.

All the data is stored in an appropriate database.

2. User roles

The roles of the application users are:

- Project creator
- Backer
- Admin (Employee of the Platform Owner) controls and monitors the processes.

3. Business Case Description

The Project Creator promotes his idea through a custom **project profile page** where he can **add** a **project title**, **Description**, **photos**, **videos** and **post status updates**, whenever necessary.

In addition to that, the Project Creator should be able to **track the project's financial progress** through his Dashboard page. To motivate backers to contribute, he/she should **offer a number of funding packages** where each package is accompanied by a reward to the backer.

A backer should be able to **browse all Projects** and **invest on any one he wishes**. He can **find Projects either through plain text search** or by **browsing by category**, and he should be able

to **view the site's trending projects**. He/she should also be able to **view the projects he funded** and observe their progress.

Your client wishes to create a proof of concept of the application, with separate screens for the Project Creator and the backer (authorization not required for the proof of concept), enabling him to showcase it's usage to Angel Investors to receive funding.

4. Project Requirements

Functional requirements

1. Add reward packages (Project creator)
2. Fund a project by selecting a reward package (backer)
3. View list of available projects (backer)
4. View Project's page (backer & Project Creator)
5. View a list of funded projects (backer & Project Creator)
6. Provide a REST API allowing third party integrations.

Non-functional requirements

1. Use EF Core
2. Use DI
3. Use Coding Conventions
4. Source code delivered on **GitHub**
5. Application demonstrated on **Azure**
6. Application of coding and architectural standards

Note
The project is being developed without Authentication/Authorization considerations. These can be added only after all functional requirements are met and are considered as the extra mile of the project.

5. Criteria of self-evaluation

Backend development
1. Definition of a Model
2. Implementation of Persistence Model (using EF Core)
3. Establishment of project's functionality
4. Definition of project's Services using Interfaces.
5. Exposure of Services to an MVC/Razor Pages project

Frontend development
1. Usage of Controller POST for form submissions
2. Usage of Bootstrap for UI elements
3. Usage of HTML and Razor coding conventions
4. Display of validation messages

Git usage
1. Each team member's contribution should be clearly depicted with commits
2. Provision of clear and descriptive commit messages
3. Usage of branches for each feature development
4. Invite us to your project in GitHub. Account details will be given in class.

Azure
1. The web application should be deployed to an Azure App Service
2. The application's SQL database should be hosted on Azure.