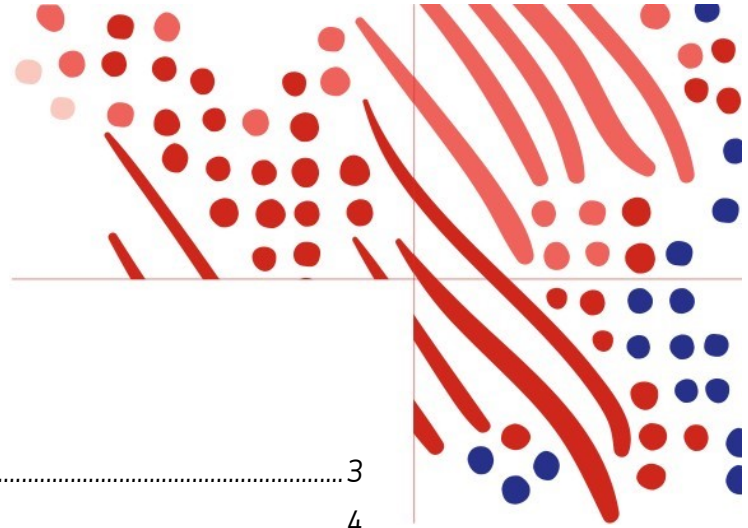


# JumpStart - .Net Project 2021

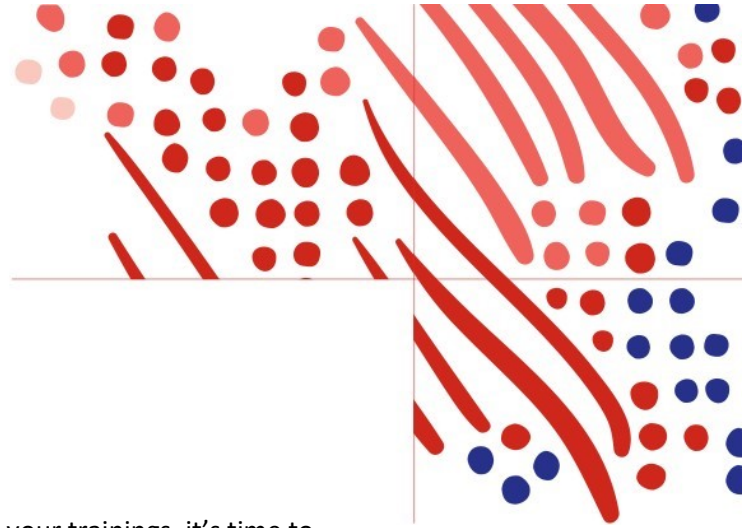
JumpStart .Net Team

GLOBAL PRODUCT AND TECHNOLOGY, ADP INDIA



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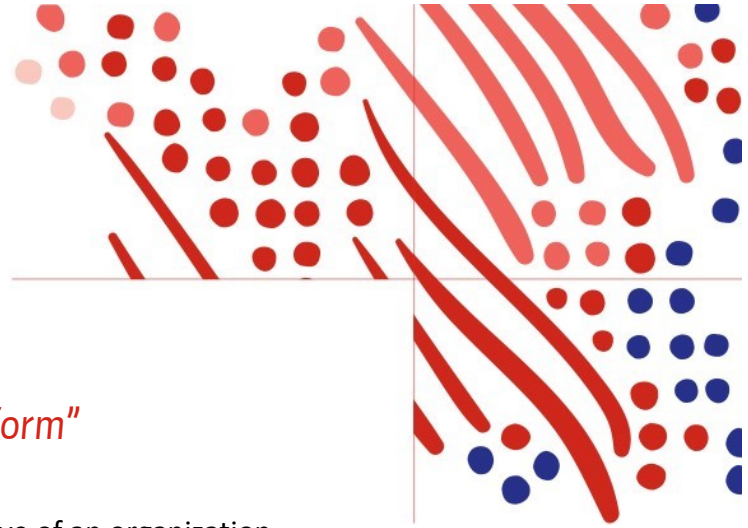


## Project Overview

Welcome to ADP GPT team! Now that you're halfway thru your trainings, it's time to start getting into some action. We have a project assignment for you, which is to build a web application. Please do read this entire document at least once before starting the project and pay attention because you'll be evaluated at the end of this assignment.

Don't hesitate to reach out to us for help. But, do checkout all the links in this document before you reach out to us. Many of these links do serve a dual purpose, they guide you for this project, and also provide you with a small set of helpful sites and examples, which may help you now and continue helping you in future as you embark on your professional developer journey.

**Good Luck Coding!**



## *Your Project – “Company Collaboration form”*

It’s a minified version of social media in the perspective of an organization.

Your project site will have a few pages, as listed below, and all of them should be connected to each other, i.e. have links/navigation from one page to next.

### Login Page

Sign In section for existing users, login with email and password.

Sign up section - Link to registration page

Login Page should have forgot password link to reset password

After successful login, user should be redirected to home page.

### Registration Page

Collect name, email address and password.

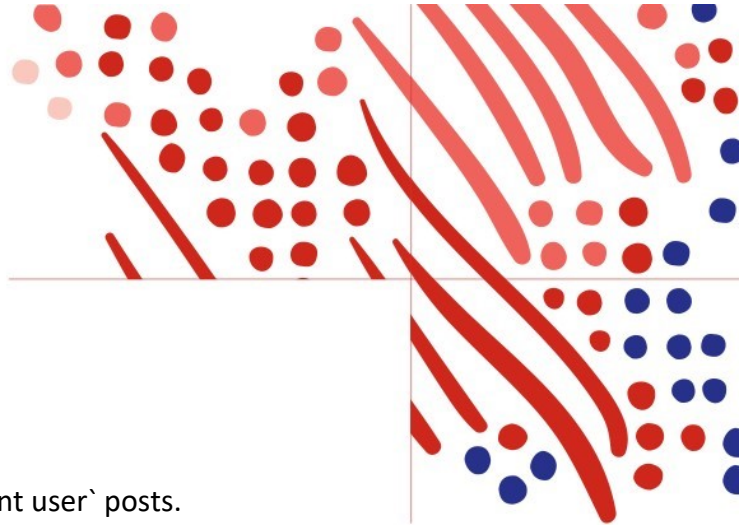
After successful registration redirect user to home page.

Following validations must be performed,

- All fields are mandatory
- Email id must be unique and should not be registered with another user. Additionally, email id should follow the proper format.
- No special characters will be allowed in Name field
- Password must be of minimum 8 character with the combination of alphabets, numbers and special characters

### Home Page

Can view following user posts in a chronological order. (There is a button to toggle between all user posts and following user posts)



Can view comments and likes of each post.

Can view posted person profiles.

Delete/edit post button should be available on `current user` posts.

Like toggle button should be available under all posts.

Add comment button should be available under all posts.

Delete comment button should be available on `current user` comments.

### New post page

Can add new posts (Text only for now)

After posting, redirect to home page

### Profile page

Display `name`, `email`, `followers` and `following` and all the `posts` posted.

Follow/Unfollow button.

### Stretch goal

While you work to create a jazzy application that incorporates all the pages and features mentioned above, here are few things you could add, *if you feel like doing more*:

- Allow user to map new post to an existing category or provide option to create new one and map it to new post
- In home page group posts by category.

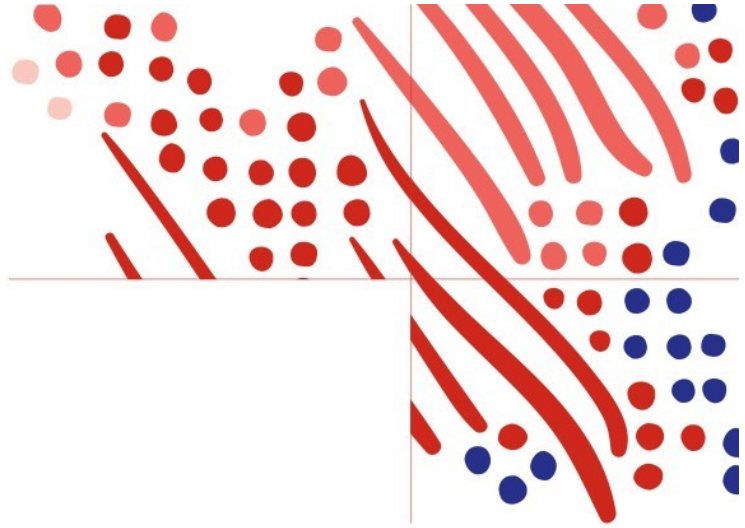
## Objectives

Your project should try to achieve as many of the objectives listed below as possible, while creating all the pages mentioned above. The more objectives you complete, the more **your** end score is going to be!

- Web Pages, UX (Look and Feel) and Navigation
  - All pages should be professional looking, all images and other assets should be aligned with each other (unless your design theme says otherwise, which is also OK).
  - [Color scheme](#) on the pages should be consistent. So, best to stick to a color theme across the project.
  - Pages should have buttons/links connecting the entire site together.



- Navigation should not be broken, i.e. there should not be a dead page from where we cannot go back to the main page, or to other pages in your site.
- Pages should have proper validations on all fields, for e.g. numbers should not be allowed in name fields, characters should not be allowed in number fields, dates should only be accepted in DD/MM/YYYY format etc. You can define your validations as you seem fit.
- Angular should be used for front end, pages should look neat and professional.
- Database
  - Save all the relevant form data to a DB
  - You need to use Microsoft SQL Server as your DB.
- Web App
  - App should have REST services which your web pages will call to get and save info.
  - Services should be able to connect to database and get/save data.
  - App should be deployed on Visual Studio inbuilt web server, running in your local machine.
  - Application Logs should be printed in a separate file.  
Log file name should be "Expense.log". Log events in this file should be printed for the following:
    - i. When a new expense is submitted and approved.
  - Remember to use what you've learnt so far, and use the following:
    - Collections
    - ii. Generics
    - iii. IO
- NUnit
  - Write NUnit tests.
  - Use Mockito to mock your objects.
  - Find your NUnit coverage and publish the report. Help available [here](#).
- Compile and build all artifact
- Code Quality
  - This will be measured based on your code's SonarLint reports.



## Assessment / Project Delivery

Here is what we expect at the end of this project during the project showcase/demo

1. You should be able to build your application without any errors or warnings.
2. All your NUnit tests should pass.
3. You should be able to showcase your database objects – tables, views etc. with values from above demo.
4. You should be able to showcase a folder where user images were saved.
5. You should've submitted all code (C#, NUnit, HTML, CSS, JS, other web assets like images, DDL, DML etc.) in a zip file to us on or before assessment end date.
6. Assessment team will then evaluate your code with you, or they might do it offline.

## Important Note

1. Please do not download any assets (images/icons/pictures etc.) from web, which are not free. You're OK to use low-quality free assets in your project, but not OK to download and use someone's copyrighted assets. There are tons of free assets available out there, so check. Also, this is not about the quality of assets you use, but your tech skills, so don't get lost in the internet of images and scripts.
2. Same goes for all the software that you use to build this project. All the links provided above are for free/open-source software, and you're free to download and use more as long as you're using free/open source; Or, you are the one paying for it!
3. Please run a virus scan on the code zip file, and any other file(s) that you might be sending to us as part of your final project delivery. Only submit clean files to ADP.