**2C2P & 3 Sixty New API**

* **Console application:**

It designs to call the API to execute the pending transaction:

* Architecture:



* **Architecture API:**
* **API Layers definition:**

This new API has multiples Layer for architecture.

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* **The layers:**

|  |  |
| --- | --- |
| Name Layer | Description |
| 2c2pConsoleAPI: | Console application to trigger the API consume in the server to execute the endpoints |
| WebAPI2c2p: | API Layer with the controller for every entity :  Payment  Payment APM  Inquiry  Void  Refund  Settlement  Contains Helper Classes for Json operation.  Configuration  **Appsettings.json: general configuration fro API** |
| BussinesLogic: | **Entities Folder**: It contains the **entities** for request and response.  **Interfaces**: It contains **Interfaces** for Services Layer to get access to it  **Services:**  logic and method to access the data Access layer |
| DataAcces: | It contains:  **Context**: contains the database access instance and entity framework  **Interfaces**: it contains the contract to access the repository  **Model**: It contains the database entities model with entity framework  **Repository**: Logic and methods to access and execute CRUD for database |
| Infrastructure: | It contains:  Configuration: for JWT bearer token generation |

* Appsetting.Json:

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It contains

1. ConectionString database
2. **2c2pConfigs**: defines the URL for the different endpoint for 2c2p api endpoints
3. **JWT** **config**: token generation parameters

Starup.cs

Contains the principal configuration **for API with Swagger and JWT** Bearer token settings and dependency **singleton** between layer with **DataAcces** and **BussinesLogic**

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* **Controller Desing**

Every controller has a entity as a contract to identify the entity to create the request from the database,

The design to run the API it is through the Console application, the plan is running the API , and the endpoint will get all the data every time the Console call the API , the API will apply filter to get the pending data to process and send it to **2c2p**

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The API consumes the endpoint for external API to send the data and store a log for every API request to get auditory in every endpoint and get the data for errors and warnings.

User: admin.admin

And password: 3Sixty@2024

{

"email": "admin.admin",

"password": "3Sixty@2024",

"twoFactorCode": "N",

"twoFactorRecoveryCode": "N"

}