



How to Use CGen

1. Sign up for the CGen service at <http://www.cgen.rocks>

- Select the Public Beta Plan
- Enter your Organisation Name
- Enter your email address
- Sign up is free, an email will be sent to you with your initial password.



Subscription Plans

| Subscription Information | |
|--------------------------|---|
| Organization Name | <input type="text" value="My Software Developer Inc."/> |
| Email | <input type="text" value="developer@mydev.net"/> |

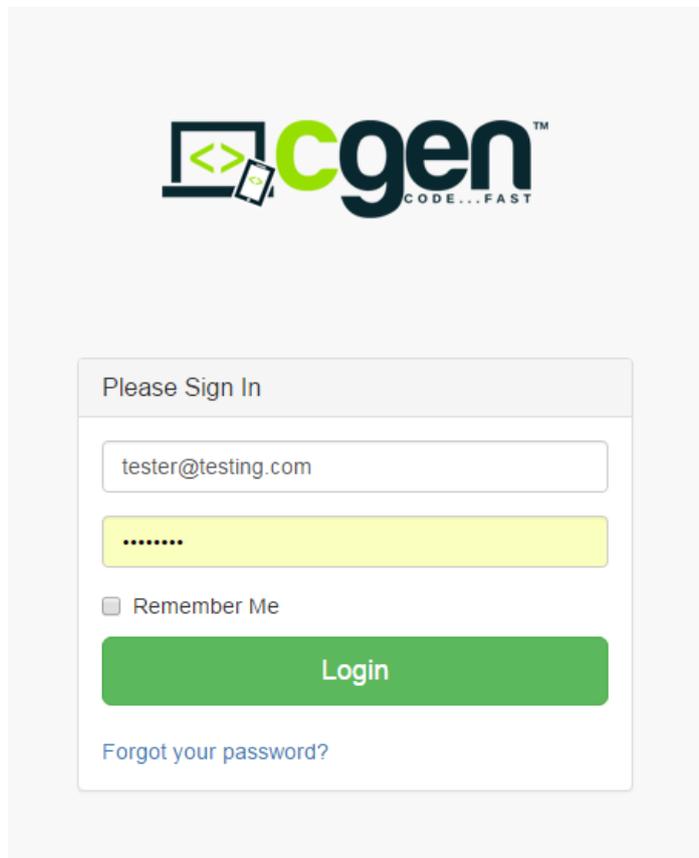
| Terms and Agreement |
|--|
| <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Pellentesque eget pharetra ligula, id dictum enim. Praesent ac faucibus turpis. Nullam ultricies tempor bibendum. Quisque tempor sollicitudin porttitor. Praesent id euismod felis, ultrices euismod diam. Curabitur laoreet efficitur faucibus. Quisque tincidunt tellus a orci egestas luctus.</p> |
| <input checked="" type="checkbox"/> I Agree to Terms of Service Agreement |

SUBMIT

[Terms and Condition](#) | [Privacy Policy](#)

2. Login as the Developer user (currently <http://betadev.cgen.rocks>)

- Enter your email address
- Enter the password sent to you in the welcome email
- Click the Login button



3. Create a new Project

- Click the “+” sign next to **Projects**
- Enter the project name – Note that if the project is to be used to create the files for a VB DLL, the project name will be used for the name of the DLL.
- Enter the project description.
- Click the **Save** button

Note: There is no validation of Project, Class or Field names. We recommend that you don't use spaces in the Project, Class or Field names. Make sure you double check before saving.

Project

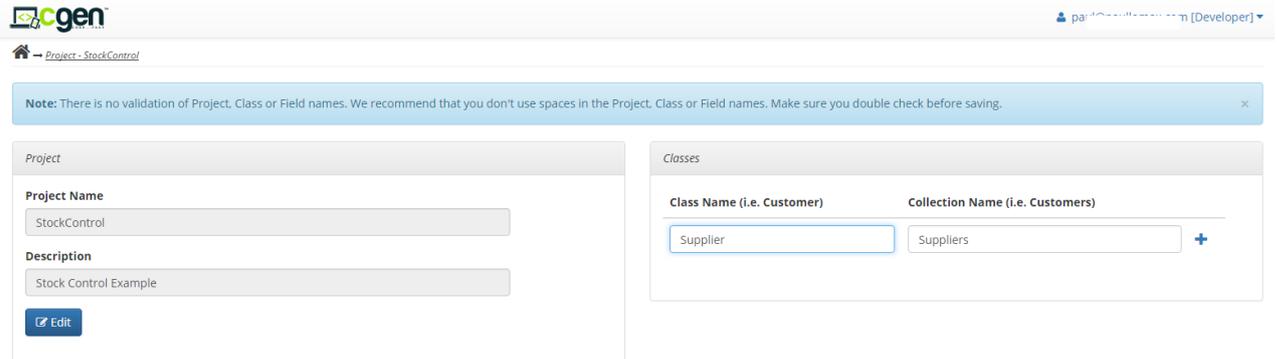
Project Name
StockControl

Description
Stock Control Example

Save

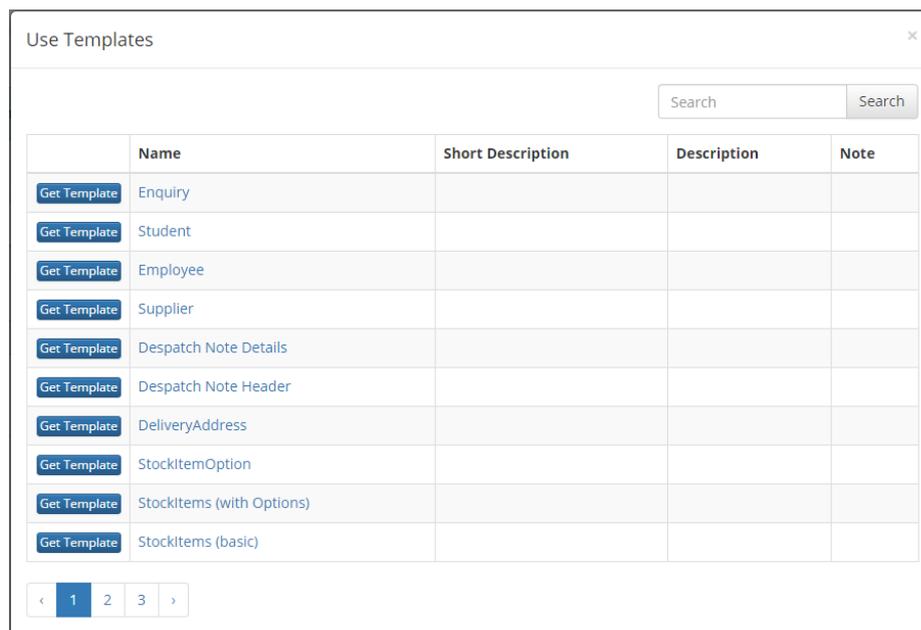
4. Create the Classes within the Project

- Enter a name for the data class. (ie Customer)
- CGen will automatically enter a name for your collection class based on the data class name, you can use this or enter your own name for the collection class (ie Customers)
- Click the “+” symbol to create the classes



5. Add Class from Template (optional)

- CGen gives you a number of pre-populated data class templates to make the creation of new business applications even quicker and easier. Further templates will be added to CGen from time to time.
- To use the class templates click the "Add Class from Template" link above the list of classes in your project. This will bring up a list of the current templates.



- Clicking the name of the class template will show you the structure of the data class.

The screenshot shows a dialog box titled "Use Templates" with a close button (X) in the top right corner. It is divided into two main sections:

- StockItems (basic)**: This section contains two input fields:
 - Class Name**: A text box containing the value "stockitem".
 - Collection Name**: A text box containing the value "stockitems".
- Fields Detail (stockitem)**: This section contains a table with the following columns: Field Name, Type, Size, Sort Order, and Searchable. The table lists 11 fields with their respective details.

At the bottom right of the dialog box, there are three buttons: "Back" (orange), "Add" (blue), and "Cancel" (grey).

| Field Name | Type | Size | Sort Order | Searchable |
|-------------------|---------|------|------------|--------------------------|
| stockitem_ID | IDENT | | 1 | <input type="checkbox"/> |
| ShortDescription | String | 20 | 2 | <input type="checkbox"/> |
| LongDescription | String | 100 | 3 | <input type="checkbox"/> |
| ThumbnailRef | String | 50 | 4 | <input type="checkbox"/> |
| Keywords | String | 100 | 5 | <input type="checkbox"/> |
| StockLocation | String | 20 | 6 | <input type="checkbox"/> |
| SupplierID | Long | | 7 | <input type="checkbox"/> |
| CurrentStockQty | Single | | 8 | <input type="checkbox"/> |
| StockUnit | Integer | | 9 | <input type="checkbox"/> |
| LastStockCheck | Date | | 10 | <input type="checkbox"/> |
| SupplierReference | String | 20 | 11 | <input type="checkbox"/> |

- To use any of the class templates in your application simply click the "Get Template" button, or from the detail view click the "Add" button. The class chosen will then be automatically added to your project, and you can then amend the class to suit your exact requirements.

6. Create the Fields within the Data Class

- CGen automatically creates an IDENT field in new data classes, based on the name of the data class. You can accept this field, or change it to your own class name and data type.
- Enter a name for the data field (ie CustomerID)
- Select the data type for the data field
- If the data type is String, enter a size for the field

- Select if the field is searchable – if you specify a field as “searchable” CGen will create a write only property in the collection class to allow easy searching for that value in that field.
- Click the “+” symbol to create the field
- Note that only the first field can be an IDENT data type, however the first field can be any data type. In other words, if you are using an IDENT it must be the first field.

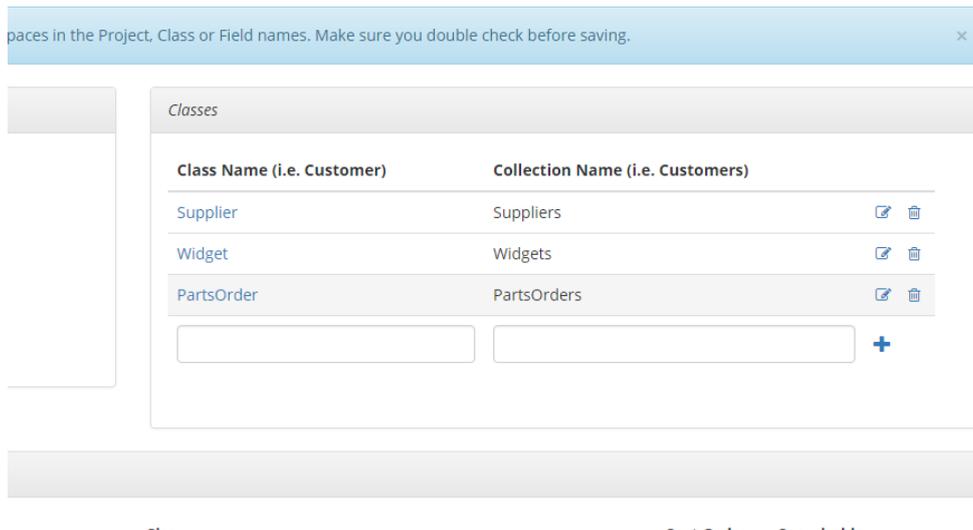
The screenshot shows the CGen web interface. At the top left is the CGen logo and a user profile for 'paul@...tom [Developer]'. Below the header is a navigation breadcrumb 'Project - StockControl'. A blue notification bar states: 'Note: There is no validation of Project, Class or Field names. We recommend that you don't use spaces in the Project, Class or Field names. Make sure you double check before saving.' Below this are two main panels: 'Project' and 'Classes'. The 'Project' panel has fields for 'Project Name' (StockControl) and 'Description' (Stock Control Example), with an 'Edit' button. The 'Classes' panel has a table with columns 'Class Name (i.e. Customer)' and 'Collection Name (i.e. Customers)'. It shows 'Supplier' and 'Suppliers' with edit and delete icons, and a '+' button to add more. Below these panels is the 'Fields Detail (Supplier)' section, which is a table with columns: Field Name, Type, Size, Sort Order, and Searchable. The table contains two rows: 'SupplierID' (IDENT, 1) and 'SupplierName' (String, 50, Sort Order 2). Each row has edit and delete icons. A '+' button is at the bottom right of the table.

- Continue adding the required classes and fields. There are no limits to the number of classes and fields you can add in CGen.

This screenshot shows the 'Fields Detail (Supplier)' section in more detail. It displays a table with the following data:

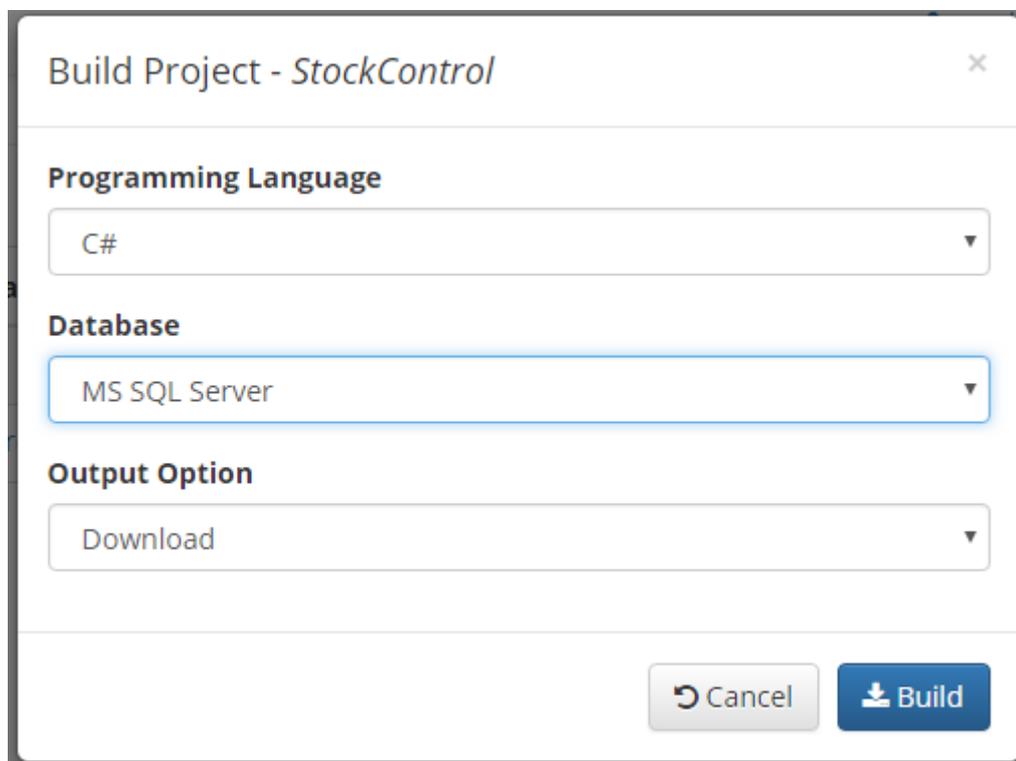
| Field Name | Type | Size | Sort Order | Searchable |
|----------------------|--------|----------------------|------------|--------------------------|
| SupplierID | IDENT | | 1 | <input type="checkbox"/> |
| SupplierName | String | 50 | 2 | <input type="checkbox"/> |
| Address1 | String | 30 | 3 | <input type="checkbox"/> |
| City | String | 20 | 4 | <input type="checkbox"/> |
| Country | String | 2 | 5 | <input type="checkbox"/> |
| <input type="text"/> | String | <input type="text"/> | 6 | <input type="checkbox"/> |

Each row in the table has edit and delete icons. A '+' button is located at the bottom right of the table to add new fields.

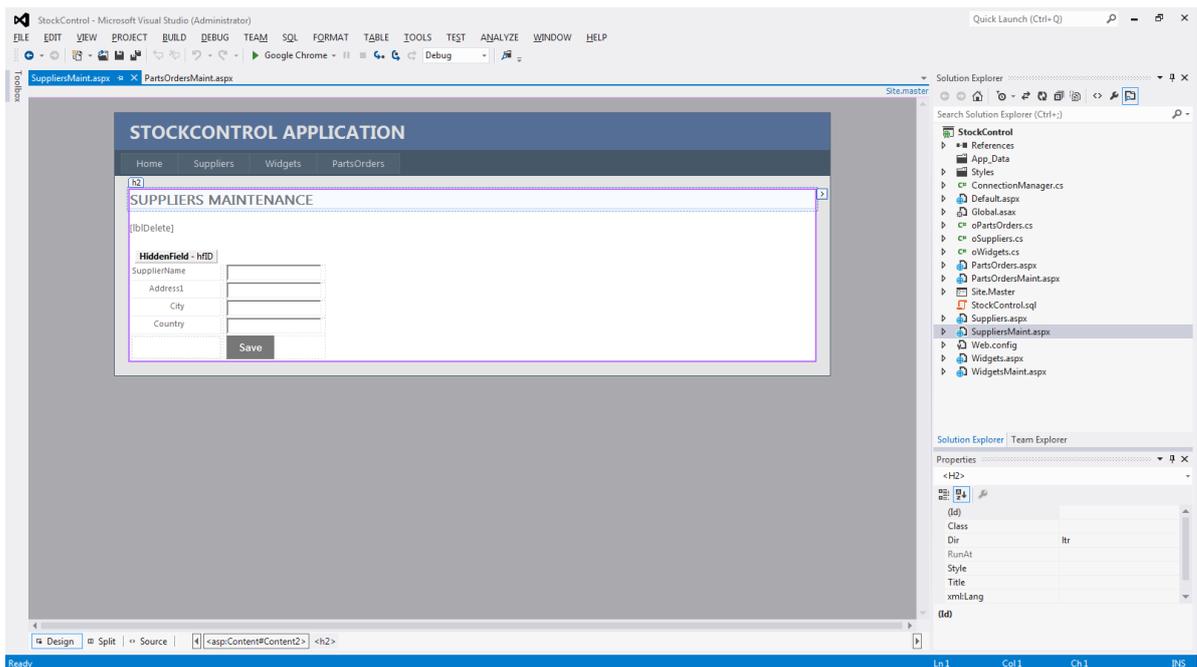
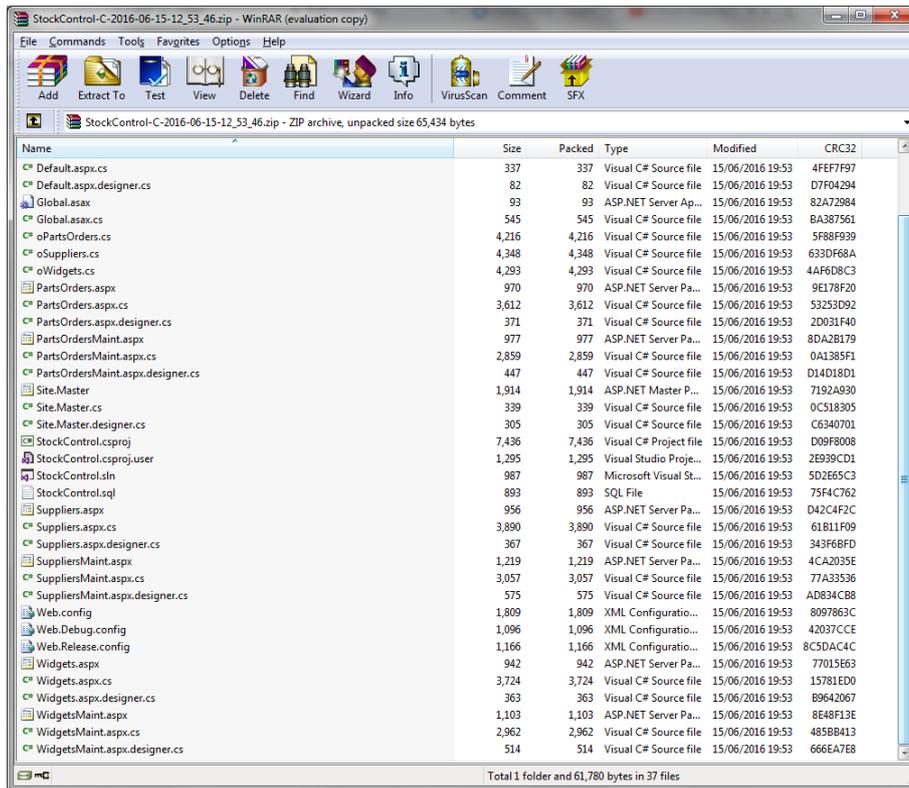


7. Generate the Code

- Log in as the developer (if you are not logged in already)
- Click the Build icon to the left of the project name
- Select the output language
- Select the database type
- Select output option type – at this point CGen only downloads the generated code to your browser.
- Click **Build** button



- CGen generates your application and downloads the code to your browser within a numbered zip file. Load the code into your favourite development environment and the rest is up to you!



8. Customise variable suffixes (optional)

As programmers and developers we often like to use our own notation for variable data types, so CGen provides you with the ability to customise the variable suffixes that CGen automatically adds within the generated code. This way, the code will “feel” more like code creating by you.

- When logged in as the developer, click the ID link in the top right
- Select **Prefix Settings**

- CGen displays the list of default data type suffixes

Support Contact:

support@cgen.rocks

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