# To do and improvements

Client validations:

The validation is currently all done on the server. This was done to satisfy the requirement “take the user input, send it, validate it”. Most of the validation, such as luhn algorithm, length checking and number validations could have easily be done at the client browser first. This would avoid a call to the server if initial validation fails.

Nicer layout:

The look and feel of the layout.html file would in real life be improved, corresponding to the site template. In this case the effort for a nice layout was minimal, as the main effort went into delivering a working product.

Settings files:

These would have been move into a separate “.CFG” file rather than the “.JS” file. It would make it slightly easier to make changes and won’t effect code.

Testing:

In this case, testing was done on a Windows environment. In real life, this would have been tested on a number of platforms, including Mac and Linux distros.