# PeopleSoft and GitHub Integration

## Project Charter

Create a seamless connection between a customer’s development environment and GitHub, for both easy download of existing free projects (such as Process Monitor 2.0) and “work in process” projects (efforts to collaborate on new bolt-on code, interactively).

For existing projects, allow an effortless “package manager” to:

* Find projects that are in beta testing or ready for prime time. The listing of projects would be in a customer’s own development environment.
* Allow the customer to do “1-click” installations, from the page that lists all of the available GitHub projects.
* Allow the customer to see installed projects, and any updates pending.
* Allow the customer to do “1-click” upgrades, to existing projects.
* Provide a compare report of what changes would be introduced, if a new project (or an update) were installed.
* Provide an information sheet on what each project can provide. Possibly have screenshots.
* Provide the instructions for migration to test and production.

For Collaboration Projects:

* Allow a customer to sign up for new or on-going projects being run by a community member.
* Allow the customer to download any existing code as a starting point.
* Allow the customer to add or modify code/objects, and submit them back to GitHub for community review or pull request.
* Allow comments to be added to any submitted code, for both context and documentation purposes.
* Track all contributors to a project. Allow the contributor to not be listed as an official contributor.

## Phases

There are two phases to this initiative:

* Phase 1: GitHub Package Manager page where customers can review, install and receive updates for GitHub projects.
* Phase 2: Collaboration space for community-driven bolt-on projects.

## Assumptions

The following are assumptions for this initiative (PS/GitHub Integration):

* The initiative will be stored on GitHub.
* The initiative is free and open source.
* The list of downloadable projects will also be GitHub projects. Code will reside on each respective owner’s GitHub folder. In the event that customers cannot access GitHub, and with proper permissions from other GitHub customers, mirrored copies of the code might reside on a third-party server.
* Projects on the Package Manager page will be free and open source. Projects must reside under an MIT license. No single contributor or customer owns the code; it is owned by the community. If an employee contributes by sending code back to GitHub, the employer they work for has no rights on the code being submitted. Likewise, the employer has full rights to use the GitHub code with no royalties or fees being paid to GitHub or the community.
* Extra data, screenshots, etc will either reside on each respective GitHub folder, or on this initiative’s GitHub folder.
* Project pushes to a customer are only intended for Development environments. It is the responsibility for each customer to review and test the code, before migrating to Test and Production.

## Naming Ideas Space

Phase 1’s page:

* PS Package Manager
* PS GitHub Package Manager
* PS Packman (**Pack**age **Man**anger)

## Phase 1 Ideas

Ideas To Kick Around:

* Have a flag that states if this is a pure-bolt on, or if it touches any delivered objects.
* Each project from GitHub will have a minimal Tools version and maybe certain Apps, App release/PUM Release.
* Have the page allow the users to subscribe to different github spaces? For instance, if you have a particular format that is required, and a developer (who has his own github page) conforms to your standards, can the page allow the end user to say... add/watch this github space? I guess this is kinda like your marketplace idea... in a different way
* Verification process on the Package Manager page. That way projects have been vetted for no malicious code, by a gatekeeper or the community, or a group of trusted developers.