# Demand Planning Application – Specification.

Design an application to collect the demand of IT services required by external clients and internal clients, in several events where the organization provide services.

## Specification

**User Profile :** Each user will have one application profile and will belong to an organization.

Those are the three application profiles expected :

* Admin : Full control over the application.
* Product Owner : Be able to view the product catalogue and edit products which category the product owner (user) has permission to edit. View demand and approve changes on the request of products which category the user has permission for.
* Client User : Able to view the product catalogue and able to add and change demand of IT services.

**User Data Permission :**

* **Product Category :** When a profile is assigned to one or more product category, the profile will be allowed to edit, add, delete, or approve records assigned to his category. Bear in mind the user is able to view all records.

**Event :** List of event in which the organization offer services to internal and external clients, so they can request the IT services to be provided on those events. The organization should be part of the Django Admin core function.

**Organization:** List of organizations can be two types, functional area from the internal organization, or an external organization. The organization should be part of the Django Admin core function.

**Product Catalogue Page :** Product catalogue displays the list of all IT services to be offered to external and internal clients, the catalogue contains product id, product name, product description, image, model, and category

* Product Stock : Each product will have an planned.
* Must implement an Add button, only available to product owner or admin profile, this opens a page to add a new product.
* Filter must be available per product name, with partial search as standard.

**Demand Page :** Displays all demand requested, the demand must keep the following information demand id, product id, product name, event, organization, quantity needed, status. The user should be able to filter per event, the search should per demand id or product name, product id, just one search field is needed but the search is applies to all three fields.

* Client should be able to add a demand.
* Pagination function must be available.
* Client can select the demand, it should open a form to update the demand, without need to refresh or leave the page.
* The change must be recorded in the historic log as text field.
* Status can be requested, approved, or cancelled.

**Approve change page :** Any service requested must be approved by the product owner of the service, this page must be available to the product owner only and must displays only requests needing his approval, this means display demands where he is responsible to manage the product.