



**Design Tool**

**Requirement Specification Document**  
**DDT - RSD 1.1**

	Requirement Specification	<b>Datwyler Design Tool</b> <b>DDT - RSD 1.1</b>
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## 1 Introduction

### 1.1 Scope of the document

This document provides the Requirement Specification for development of a “Design Tool” for Datwyler. The document outlines the details of functional requirements for implementing the same. The document provides a general view of the requirement. It is the responsibility software development company to make sure that they will deliver a fully functional software meeting the expectations of Datwyler.

The inputs, outputs, and functionalities stated in the document present a guideline for the requirement. The bidder should allow for a 5% change in the number of inputs, outputs, and functionalities required without any additional cost.

The expectation is for a user friendly web application for Pc and mobile users. The bidder should propose the latest and innovative ways of interface to increase their chances in the project.

Refer to the annexures at the end of the documents for details on:

- Submission document
- Evaluation criteria
- Project time line

## 2 Definitions and Conventions

Abbreviation / Term / Conventions	Definition / Description
RS	Requirements Specification
BOQ	Bill of Quantity
BD	Building Distribution
FD	Floor Distribution
ONU	Optical Network Unit
ODF	Optical Distribution Frame
PP	Patch Panel
PC	Patch Cord
SPG	Service Provider Guideline
UOM	Unit of Measure
CBM	Cubic Meter
CM	Conditional Mandatory
PIM	Product Information Management
N/A	Not Applicable

### 3 General Description

#### 3.1 System Overview

The Web based Design Tool is intended to simplify the current Pre-Sales and Sales process of Datwyler Cabling Solutions. The Software tool will handle the activities from capturing a Project/Product Enquiry details to showing the delivery status of Items to End Customers.

From a Pre Sales and Sales perspective, the system will have the below capabilities:

- 1) Generate quotation by designing a new solution. This capability will have the below features:
  - Capture Project Details
  - Input Design Specifications
  - Generate Schematic Diagrams
  - View Project location Map
  - Get Solution Output
  - Generate BOQ
  - Generate Quote
  - Show Logistics Details
  - View Product Availability
- 2) Generating quotation directly from the Product pricelist. This capability will have the below features:
  - View Product / Item Price List
  - Generate BOQ from Pricelist
  - Generate Quote
  - Show Logistics Details
  - View Product Availability

In Addition to the above the software tool will have capability to Create predefined solutions, Create solutions based on Service Provider Guideline, Track order status, View user dashboard, View system usage analytics and also post any new events and announcement's related to the organization

### 3.2 Assumptions and Dependencies

Sl. No.	Assumptions
1.	No third-party integration is considered other than SAP Integration, Visio Integration, PIM Integration and integration with Datwyler website for Data sheets
2.	No Mobile Application is considered in this phase of the project instead it would be Mobile Responsive Web System
3.	As the proposed solution is having graphically rich and interactive user interfaces and these functionalities are developed mainly targeting desktop browser and can have limited or constrained behavior in mobile browsers
4.	SAP integration will require corresponding API information and the same will be provided by the customer
5.	PIM Integration will be considered in the later stages of the project once the PIM system is up and running. In future PIM system will be used to fetch Product and Datasheet information instead of SAP/Website

### 3.3 Constraints

None

## 4 Functional Requirements

The following are the detailed functional requirements for the development of the proposed Design Tool.



#### 4.1 Login



The login page features the Datwyler logo at the top, followed by the text 'Design Tool'. Below this are two input fields: 'Username' and 'Password'. A checkbox labeled 'Remember Me' is positioned to the left of a 'Forgot Password' link. At the bottom center is a 'Login' button.

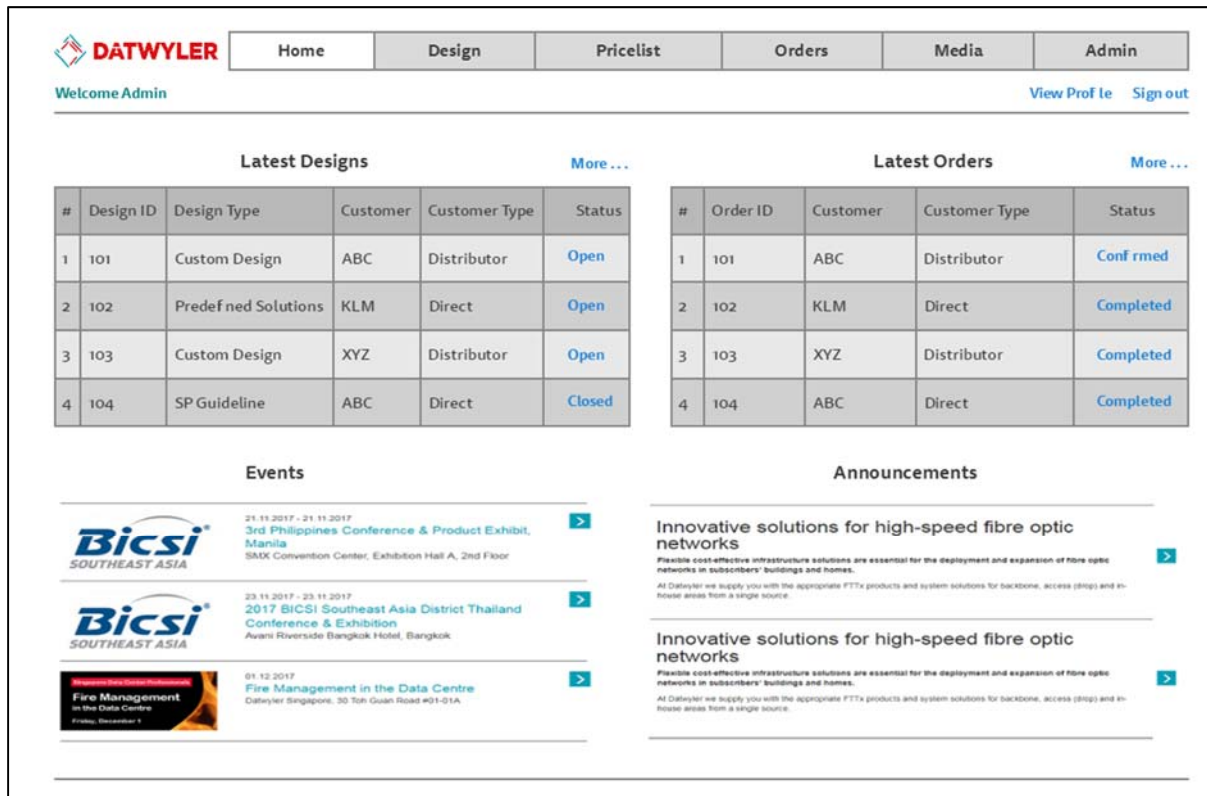
Figure 1: Login Page

User will be able to login to the system through this option. Users already registered will have the provision to login to the system with their username and password. On clicking the login button, users would be navigated to the Home Page.

- **Remember Me:** The Page will have a “Remember Me” option to remember the user password on next login
- **Forgot Password:** By Using this option user can reset the password if they are unable to remember the existing password. A Mail will be sent to their registered Mail ID with the new password to login. This can be changed by the user anytime through their Profile page

**Note:** The default welcome/login page will be having few images and animations. The above login screen is just an indicative screen. The look and feel of all the screens in this RS document will be finalized during the design phase.

## 1.2 Home Page



The screenshot shows the Datwyler Design Tool Home Page. At the top, there is a navigation bar with the Datwyler logo and links to Home, Design, Pricelist, Orders, Media, and Admin. Below the navigation bar, there is a welcome message for the Admin user and links to View Profile and Sign out.

The main content area is divided into four sections:

- Latest Designs:** A table showing the latest 5 designs with columns for Design ID, Design Type, Customer, Customer Type, and Status. The status is either Open or Closed.
- Latest Orders:** A table showing the latest 5 orders with columns for Order ID, Customer, Customer Type, and Status. The status is either Confirmed or Completed.
- Events:** A section displaying upcoming events, including the 3rd Philippines Conference & Product Exhibit, Manila, and the 2017 BICSI Southeast Asia District Thailand Conference & Exhibition.
- Announcements:** A section displaying announcements, including innovative solutions for high-speed fibre optic networks.

Figure 2: Home Page

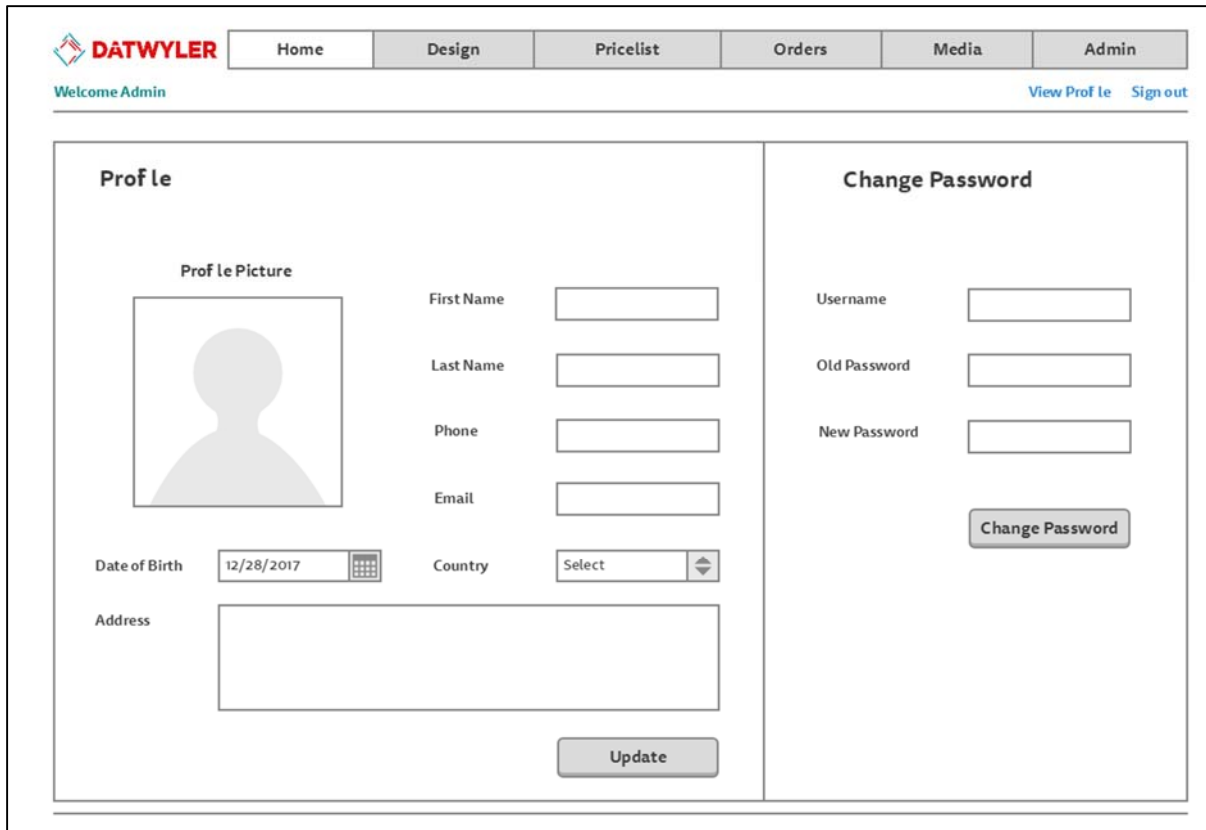
Once Logged in user will be landing to the Home page. The information presented in this page will be the latest data.

The data will cover the below sections:-

- Listing of Latest 5 Designs with their Status
- Listing of Latest 5 Orders with their Status.
- Listing of Latest 5 Events posted through the system and also from website
- Listing of Latest 5 Announcement posted through the system

User will be able to navigate to the respective sections in detail from this page

Additionally user will be able to navigate to their Profile from the Home page, by clicking **View Profile** button.



The screenshot shows a web application interface for a user profile. At the top, there is a navigation bar with the 'DATWYLER' logo and a 'Home' button. Below the navigation bar, there is a 'Welcome Admin' message and a 'View Profile' link. The main content area is divided into two sections: 'Profile' and 'Change Password'.

**Profile Section:**

- Profile Picture:** A placeholder image of a person's head and shoulders.
- First Name:** A text input field.
- Last Name:** A text input field.
- Phone:** A text input field.
- Email:** A text input field.
- Date of Birth:** A date picker showing '12/28/2017'.
- Country:** A dropdown menu with 'Select' as the current option.
- Address:** A large text input field.
- Update:** A button to save the profile information.

**Change Password Section:**

- Username:** A text input field.
- Old Password:** A text input field.
- New Password:** A text input field.
- Change Password:** A button to update the password.

**Figure 3: User Profile**

The profile will have following information of the user

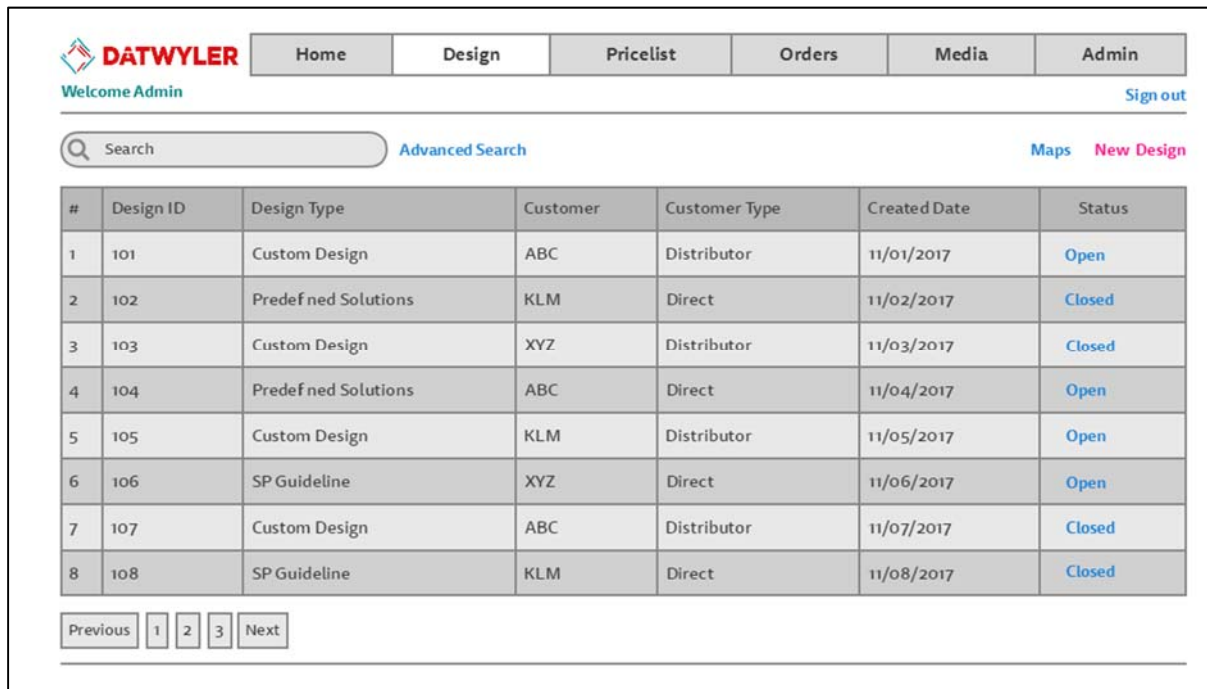
- First Name
- Last Name
- Phone
- Email
- Date of Birth
- Country
- Address

User can modify these details whenever required.

There will be provision to change the password of the user. It can be changed by entering the user name, old password and new password.

## 1.3 Design

### 1.3.1 Design Listing



#	Design ID	Design Type	Customer	Customer Type	Created Date	Status
1	101	Custom Design	ABC	Distributor	11/01/2017	Open
2	102	Predefined Solutions	KLM	Direct	11/02/2017	Closed
3	103	Custom Design	XYZ	Distributor	11/03/2017	Closed
4	104	Predefined Solutions	ABC	Direct	11/04/2017	Open
5	105	Custom Design	KLM	Distributor	11/05/2017	Open
6	106	SP Guideline	XYZ	Direct	11/06/2017	Open
7	107	Custom Design	ABC	Distributor	11/07/2017	Closed
8	108	SP Guideline	KLM	Direct	11/08/2017	Closed


Figure 4: Design Listing

The Design module can be selected from the Main menu or can be reached from the Home page design listing section. The landing page of the module will have an option to create new designs by selecting **New Design** Option and a default listing grid with the below information:

- Design ID
- Design Type
- Customer
- Customer type
- Created Date
- Status

#	Column Name	Description
1.	Design ID	Shows the Identifier for the design. This is generated while creating a new design. This will be a combination of customer code and an auto generated number
2.	Design Type	Shows whether the design is created from a Custom Design, Predefined solution or Service Provider Guideline
3.	Customer	Displays the name of the customer
4.	Customer Type	Displays whether the customer is a “direct” customer or a “partner” of Datwyler
5.	Created Date	Created date of design will be displayed based on the initiation of a new design through the system
6.	Status	Shows the Status of the design if the same is “Open” on “Closed”. User can navigate to the respective design by clicking on the status. <ul style="list-style-type: none"> <li>• <b>Open designs</b> are the designs that are in progress .User with edit permissions can edit all Open Designs</li> <li>• <b>Closed designs</b> are the ones which are converted to a Quote and a <b>Request for Official Quote</b> is placed from the system</li> </ul>

### 1.3.2 Create Design



Home
Design
Pricelist
Orders
Media
Admin

[Sign out](#)

Design
Maps
Order

Design ID: 101
Created Date: 11/01/2017

Design Name: ABC Project
Project Type: ISP - FTTH
Customer Type: Distributor
End Client: ABC
Country: UAE
City: Dubai
Area: Deira
No of Buildings: 3
Remarks:

Building 1
Building 2
Building 3

Design Inputs Schematic Diagram Solution BOQ Overview Quote BMI

Building Name: Building 1
Mini ODF: ☒
Standard: TIA
Building Type: Residential
Custom Design: ☒
Predefined Solutions: ☐
Service Provider Guideline: ☐

Fiber Inputs

ODF to Mini ODF Mini ODF to Micro ODF

Fiber Type: OS2
No of Fibers: 36
Links Per ODF - Mini ODF: 1
Connector Type: LC
PP Dimension: 19"/1U
PP Loaded/Unloaded: Loaded
ODF PC Length: 2
Mini ODF PC Length: 2
Advanced >>
Max. Tensile Load: 1000
Reaction to Fire: EN13501-6

Copper Inputs

Bandwidth: 1GB
Shielding: Shielded
Category: Cat 6
Cable Sheath: LSOH
PP Dimension: 19"/1U
Faceplate Type: Angled
Advanced >>
Solid/Flexible: Solid
PP Loaded/Unloaded: Loaded
PP Color: Grey
Faceplate Standard: British Standard

Floors

No of Floors: G+5
No of ODF: 1
ODF Floor: Select
ODF Name: ODF - F1
Apply Link

Ground
Floor 1
Floor 2
Floor 3
Floor 4
Floor 5

ODF - F1

No of Mini ODF: 1
Select Mini ODF: 1
Mini ODF Name: Mini ODF - F1
ODF - Mini ODF Distance: 100
Apply Link

#	Unit	Unit Type	Mini ODF Connected	No of Units	No of Micro ODF	Single Outlets	Dual Outlets	Micro ODF - Outlet Dist	Mini ODF - Micro ODF Dist	Action
1	Flat	1BHK	Mini ODF - F1	2	2	2	2	50	100	
2	Flat	1BHK	Mini ODF - F1	2	2	3	2	50	100	
3	Shop	1RM	Mini ODF - F1	1	1	1	1	50	100	

Add Units
Save
Edit

Typical: Select
Copy


Created By:

Floor 3

Floor 4

Save
Cancel

Figure 5: Create ISP - FTTH Design



Home
Design
Pricelist
Orders
Media
Admin

[Sign out](#)

Design
Maps
Order

Design ID: 101
Created Date: 11/01/2017

Design Name: ABC Project
Project Type: ISP - Conventional
Customer Type: Distributor
End Client: ABC
Country: UAE
City: Dubai
Area: Deira
No of Buildings: 3
Remarks:

Building 1
Building 2
Building 3

Design Inputs
Schematic Diagram
Solution
BOQ
Overview
Quote
BMI

Building Name: Building 1
FD: ☒
Standard: TIA
Building Type: Residential
Custom Design: ☒
Predefined Solutions: ☐
Service Provider Guideline: ☐

Fiber Inputs

BD to FD
FD to ONU

Fiber Type: OS2
No of Fibers: 36
Links Per BD - FD: 1
Connector Type: LC
PP Dimension: 19"/1U
PPLoaded/Unloaded: Loaded
BD PC Length: 2
FD PC Length: 2
Advanced >>
Max. Tensile Load: 1000
Reaction to Fire: EN13501-6

Copper Inputs

Bandwidth: 1GB
Shielding: Shielded
Category: Cat 6
Cable Sheath: LSOH
PP Dimension: 19"/1U
Faceplate Type: Angled
Advanced >>
Solid/Flexible: Solid
PPLoaded/Unloaded: Loaded
PP Color: Grey
Faceplate Standard: British Standard

Floors

No of Floors: G+5
No of BD: 1
BD Floor: Select
BD Name: BD - F1
Apply Link

Ground
Floor 1
Floor 2
Floor 3
Floor 4
Floor 5

BD - F1

No of FD: 1
Select FD: 1
FD Name: FD - F1
FD- BD Distance: 100
Apply Link

#	Unit	Unit Type	FD Connected	No of Units	No of ONU	Single Outlets	Dual Outlets	ONU - Outlet Dist	FD- ONU Dist	Action
1	Flat	iBHK	FD-F1	2	2	2	2	50	100	
2	Flat	iBHK	FD-F1	2	2	3	2	50	100	
3	Shop	iRM	FD-F1	1	1	1	1	50	100	

Add Units
Save
Edit

Typical: Select
Copy

Created By:
Save
Cancel

Figure 6: Create ISP - Conventional Design

User can create a new design with **New Design** option available in the Design Listing page. Users can create a **custom design** or create a design from **predefined solution** or using **service provider guidelines**. While creating a design, the system will capture all design related fields and generate a solution, with required items. User will have the provision to manage the items generated by the system. System will also generate a schematic diagram, which will display all the connections in the building.

The below table describes the auto-populated fields while creating a design

#	Field Name	Mandatory (Y/N)	Description
1	Auto Generated Fields		
1.1	Design ID	N/A	Created automatically. Represent the identifier of the design
1.2	Created Date	N/A	Displays the date in which design is created
1.3	Created By	N/A	Displays the user who created the design

### 1.3.2.1 General Parameters

General parameters include all the basic details of the design. This includes the project details, customer details and building location.

As the user enters the number of buildings, separate tabs will be generated for each building. User can enter the details of each building separately. The below table describes the general parameters captured while creating a design. There will be provision to capture the map details.



#	Field Name	Mandatory (Y/N)	Description								
1	General Parameters										
1.1	Design Name	Y	Capture the Title of Design								
1.2	Project Type	Y	<div>Can select the project type. E.g., ISP – FTTH, ISP – Conventional etc. The terminologies used while capturing a design differ based on project type as in below table.</div> <table><tr><th>Conventional</th><th>FTTH</th></tr><tr><td>BD</td><td>ODF</td></tr><tr><td>FD</td><td>Mini ODF</td></tr><tr><td>ONU</td><td>Micro ODF</td></tr></table> <div>These terminologies change based on the selected project type. All the functionalities remain unchanged</div>	Conventional	FTTH	BD	ODF	FD	Mini ODF	ONU	Micro ODF
Conventional	FTTH										
BD	ODF										
FD	Mini ODF										
ONU	Micro ODF										
1.3	Customer Type	Y	This will be a dropdown to select whether the customer is a “direct” customer or a “partner” of Datwyler								
1.4	End Client	Y	Captures the name of the end client								
1.5	Country	Y	A dropdown to select the country								
1.6	City	Y	A dropdown to select the city coming under a country								
1.7	Area	Y	A dropdown to select the area coming under a city								
1.8	No. of Buildings	Y	A dropdown to choose the number of building available. Based on the entered value, separate tabs will be created for the building								
1.9	Remarks	N	Capture the remarks for the design								

**Note:** The terminologies used in a design will change based on the selected project type. If the project type is **Conventional**, the terms BD, FD and ONU will be used. If it is **FTTH**, the terms ODF, Mini ODF and Micro ODF will be used. All the functionalities will remain unchanged.

### 1.3.2.2 Design Inputs

The user will be able to enter the design details of each building separately. For each building, the following details will be captured

- Building Details
- Fiber Inputs
- Copper Inputs
- Floor Details

User can manage the design details for each building separately.

#### BUILDING DETAILS

Building details will include capturing the general details of building like Name, Type etc.

- User can mention if the building has FD or not. If FD is present, user can check the checkbox available, and the corresponding options for FD (or Mini ODF) will be available at the floor level
- Users can create a custom design or create a design from predefined solution or using service provided guidelines. Based on the selection of radio buttons, the sections will change. For predefined solution and service provider guidelines, the predefined products/items will be taken. User will have provision to choose the appropriate solution
- The below table describes the building details captured while creating a design

#	Field Name	Mandatory (Y/N)	Description
1	Building Details		
1.1	Building Name	Y	Captures the title of building
1.2	Building Type	Y	Captures the building type like residential, commercial etc. <b>Note:</b> Only Residential buildings are considered in this RS phase
1.3	FD	N/A	This will be a check box, and the same can be selected if FD is available in the building
1.4	Standard	Y	Captures the standard of the design
1.5	Type of Design	Y	Based on the type of design, the available fields to capture the design inputs will vary  There will be three different design types:

			<ul style="list-style-type: none"> <li>• Custom Design</li> <li>• Predefined Solution</li> <li>• Service Provider Guideline</li> </ul> <p>Predefined Solution and Service Provider Guidelines are pre-configured in the system, while Custom design will enable the user to enter completely new details</p>
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### FIBER INPUTS

This section captures the details of fiber cables and its accessories used in the design. Fiber cables used from BD to FD and from FD to ONU can be captured separately.

- **BD to FD**

BD to FD are vertical cable connections used in a building. The parameters of fiber cables used for this connection will be captured in this section

- **FD to ONU**

FD to ONU are horizontal cable connections used in a building. The parameters of fiber cables used for this connection will be captured in this section

- If the user selects predefined solution, then instead of all parameters, only **Solution Code, Links per BD - FD** and **Links per FD - ONU** will be captured. The products predefined for the selected solution code will be fetched
- The below table describes the building fiber input fields captured while creating a design

#	Field Name	Mandatory (Y/N)	Description
1	Custom Design – BD to FD Fiber Inputs (Vertical)		
1.1	Fiber Type	Y	This will be a dropdown to select the type of fiber cable used
1.2	No. of Fibers	Y	This will be a dropdown to select the No. of fibers present in a cable
1.3	Links per BD - FD	Y	Capture the number of links from BD to FD. This will be a text box and allows only Numeric values. If the value entered is more than 2, user should be given an alert before proceeding

1.4	Connector Type	Y	The connector type used in the fiber parts can be selected in a dropdown
1.5	PP Dimension	Y	The dimension of the patch panel used in the design can be selected in a dropdown
1.6	PP Loaded/Unloaded	Y	This will be a dropdown to select if the PP is loaded/unloaded
1.7	BD PC Length	Y	This will be a dropdown to select the length of BD patch cord in “meters”
1.8	FD PC Length	Y	This will be a dropdown to select the length of FD patch cord in “meters”
1.9	Max. Tensile Load	N	The maximum tensile load can be selected. It will be a Dropdown and will be available under Advanced Option
1.10	Reaction to Fire	N	Can select the reaction level of the items to fire. It will be a Dropdown and will be available under Advanced Option
2	Custom Design – FD to ONU Fiber Inputs (Horizontal)		
2.1	Fiber Type	Y	This will be a dropdown to select the type of fiber cable used
2.2	No. of Fibers	Y	This will be a dropdown to select the No. of fibers present in a cable
2.3	Links per FD - ONU	Y	Capture the number of links from FD to ONU. This will be a text box and allows only Numeric values. If the value entered is more than 2, user should be given an alert before proceeding
2.4	Connector Type	Y	The connector type used in the fiber parts can be selected in a dropdown
2.5	PP Dimension	Y	The dimension of the patch panel used in the design can be selected in a dropdown
2.6	PP Loaded/Unloaded	Y	This will be a dropdown to select if the PP is loaded/unloaded

2.7	ONU PC Length	Y	This will be a dropdown to select the length of ONU patch cord
2.8	Max. Tensile Load	N	The maximum tensile load will be mentioned. It will be a Dropdown and will be available under Advanced Option
2.9	Reaction to Fire	N	Can select the reaction level of the items to fire. It will be a Dropdown and will be available under Advanced Option
3	Predefined Solution – Fiber Inputs		
3.1	Solution Code	Y	This will be a dropdown to select the solution code. The system will fetch the product list from the selected solution code. The products/items will be already mapped to the Solution code from the <b>Pricelist</b> module using <b>Predefined Solution</b> page
3.2	Links per BD - FD	Y	Capture the number of links from BD to FD. This will be a text box and allows only Numeric values. If the value entered is more than 2, user should be given an alert before proceeding
3.3	Links per FD - ONU	Y	Capture the number of links from FD to ONU. This will be a text box and allows only Numeric values. If the value entered is more than 2, user should be given an alert before proceeding

## COPPER INPUTS

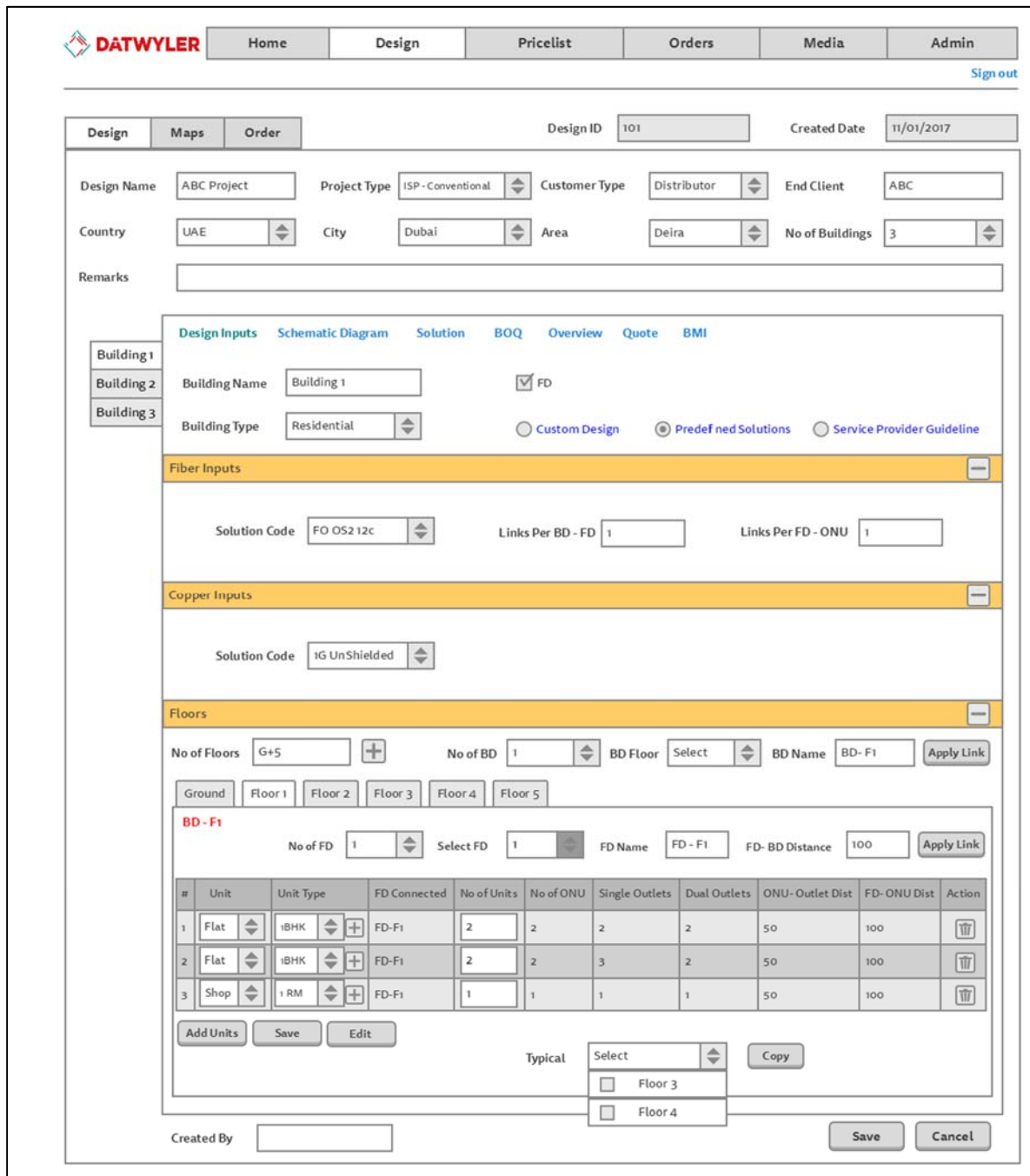
This section capture the details of copper cables and its accessories used in the design. All connections from ONU to outlets will be using copper cables.

If the user selects predefined solution, then instead of all parameters, only **Solution Code** will be captured. The products predefined for the selected solution code will be fetched.

The below table describes the copper input fields captured while creating a design

#	Field Name	Mandatory (Y/N)	Description
1	Custom Design – Copper Inputs		
1.1	Bandwidth	Y	This will be a dropdown to select the bandwidth of copper cables
1.2	Shielding	Y	This will be a dropdown to select the shielding level of the copper items
1.3	Category	Y	This will be a dropdown to select the category of the copper cable
1.4	Cable Sheath	Y	This will be a dropdown to select the cable sheath type
1.5	PP Dimension	Y	This will be a dropdown to select the dimension of the patch panel to be used in the design
1.6	Faceplate Type	Y	This will be a dropdown to select the faceplate type used in the design
1.7	Solid/Flexible	N	Can select if the items are solid or flexible. It will be a Dropdown and will be available under Advanced Option
1.8	PP Loaded/Unloaded	N	Can select if the patch panel is loaded/unloaded. It will be a Dropdown and will be available under Advanced Option
1.9	PP Color	N	Can select the color of the patch panel used. It will be a Dropdown and will be available under Advanced Option
1.10	Faceplate Standard	N	Can select the standard of the faceplate used in the design. It will be a Dropdown and will be available under Advanced Option
2	Predefined Solution – Copper Inputs		
2.1	Solution Code	Y	It will be a dropdown to select the solution code. The system will fetch the product list from the selected solution code. The products/items will be already mapped to the Solution code from the <b>Pricelist</b> module using <b>Predefined Solution</b> page

## PREDEFINED SOLUTION



The screenshot shows the 'Design' tab of the Datwyler Design Tool. The interface includes a top navigation bar with 'Home', 'Design', 'Pricelist', 'Orders', 'Media', and 'Admin'. A 'Sign out' link is also present. Below the navigation bar, the 'Design' sub-tab is active, showing a 'Design ID' of 101 and a 'Created Date' of 11/01/2017. The main form area is divided into several sections:

- Design Inputs:** Includes fields for 'Design Name' (ABC Project), 'Project Type' (ISP - Conventional), 'Customer Type' (Distributor), 'End Client' (ABC), 'Country' (UAE), 'City' (Dubai), 'Area' (Deira), and 'No of Buildings' (3). There is also a 'Remarks' field.
- Building Selection:** A sidebar on the left lists 'Building 1', 'Building 2', and 'Building 3'. 'Building 1' is selected.
- Building Details:** For 'Building 1', the 'Building Name' is 'Building 1' and the 'Building Type' is 'Residential'. The 'Predefined Solutions' radio button is selected.
- Fiber Inputs:** A section for fiber cable configuration with fields for 'Solution Code' (FO OS2 12c), 'Links Per BD - FD' (1), and 'Links Per FD - ONU' (1).
- Copper Inputs:** A section for copper cable configuration with a field for 'Solution Code' (1G UnShielded).
- Floors:** A section for floor configuration with fields for 'No of Floors' (G+5), 'No of BD' (1), 'BD Floor' (Select), and 'BD Name' (BD- F1). There is an 'Apply Link' button.
- BD - F1 Details:** A section for the selected building floor with fields for 'No of FD' (1), 'Select FD' (1), 'FD Name' (FD - F1), and 'FD- BD Distance' (100). There is an 'Apply Link' button.
- Units Table:** A table showing the units connected to the floor. The table has columns for '#', 'Unit', 'Unit Type', 'FD Connected', 'No of Units', 'No of ONU', 'Single Outlets', 'Dual Outlets', 'ONU- Outlet Dist', 'FD- ONU Dist', and 'Action'.

#	Unit	Unit Type	FD Connected	No of Units	No of ONU	Single Outlets	Dual Outlets	ONU- Outlet Dist	FD- ONU Dist	Action
1	Flat	1BHK	FD- F1	2	2	2	2	50	100	
2	Flat	1BHK	FD- F1	2	2	3	2	50	100	
3	Shop	1 RM	FD- F1	1	1	1	1	50	100	

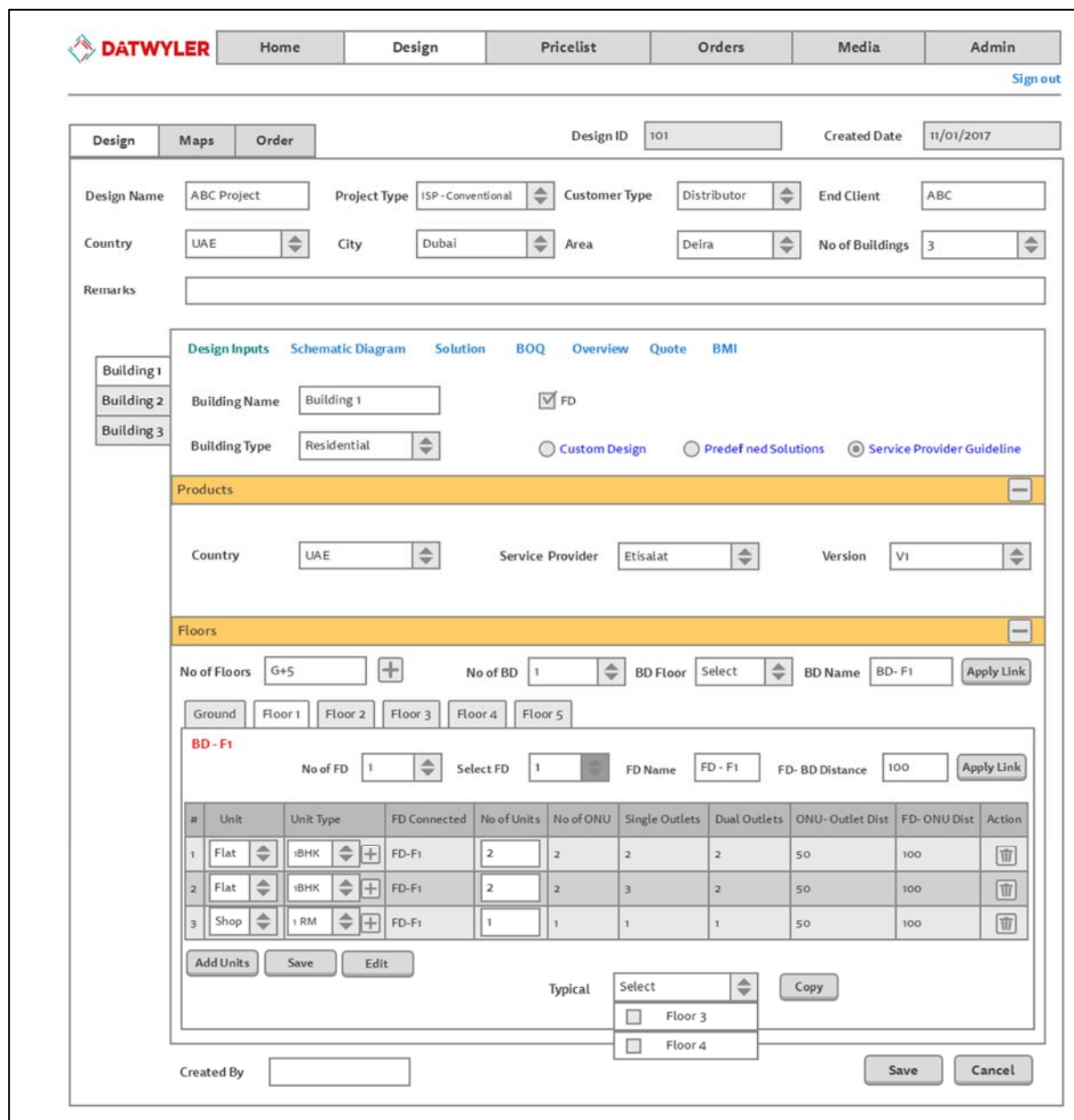
At the bottom of the form, there are buttons for 'Add Units', 'Save', and 'Edit'. A 'Typical' dropdown menu is set to 'Select', with options for 'Floor 3' and 'Floor 4'. A 'Copy' button is also present. The 'Created By' field is empty. At the very bottom, there are 'Save' and 'Cancel' buttons.

Figure 7: Create Design from a predefined solution

- If the user selects predefined solution as the design type, then solution code will be captured for fiber and copper cables. For Fiber cables, Links per BD - FD and Links per FD - ONU will also be captured

**Note:** Field details for predefined solution are covered in above sections for Copper Inputs and Fiber Inputs.

## SERVICE PROVIDER GUIDELINE



The screenshot shows the 'Design' tab in the Datwyler Design Tool. The 'Design Inputs' section is active, showing fields for Design Name, Project Type, Customer Type, End Client, Country, City, Area, and No of Buildings. The 'Building 1' section is expanded, showing fields for Building Name, Building Type, and a checkbox for 'FD'. The 'Products' section is expanded, showing fields for Country, Service Provider, and Version. The 'Floors' section is expanded, showing a table for floor details.

#	Unit	Unit Type	FD Connected	No of Units	No of ONU	Single Outlets	Dual Outlets	ONU- Outlet Dist	FD-ONU Dist	Action
1	Flat	1BHK	FD-F1	2	2	2	2	50	100	
2	Flat	1BHK	FD-F1	2	2	3	2	50	100	
3	Shop	1 RM	FD-F1	1	1	1	1	50	100	

Figure 8: Create Design from a service provider guideline

- If the user selects service provider guideline, then instead of copper and fiber parameters, only the parameters related to service provider guideline will be captured. The parameters captured are: country, service provider and version.



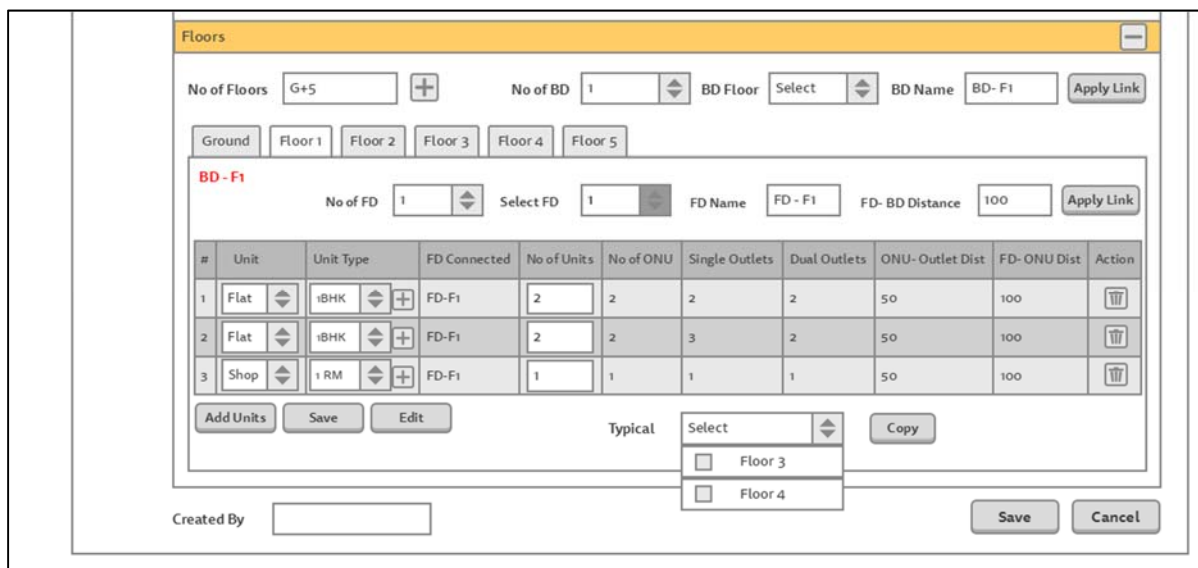
#	Field Name	Mandatory (Y/N)	Description
1	Service Provider Guideline		
1.1	Country	Y	This will be a dropdown to select the country and generate the service providers available in a selected country
1.2	Service Provider	Y	This will be a dropdown to select the service provider in selected country and generate the guideline versions available for the service provider
1.3	Version	Y	This will be a dropdown to select the version and fetch the products available under the selected service provider guideline. The products/items will be already mapped to the Version from the <b>Pricelist</b> module using <b>Service Provider Guideline</b> page

## FLOOR DETAILS

In this section, the details of floors available in the building will be captured. This will include the details of BD, FD and all units available in each floor. The functionalities in this section will be common to custom design, predefined solution and service provider guidelines.

- User will have the provision to choose number of floors. Based on selection, tabs will appear for each floor. User can enter the parameters for each floor separately
- There will be provision to add new floors. On clicking the Add button, there will be a pop up in which user can define the floors. User can choose any of the predefined category (parking, ground and floor) and enter the number of levels available for each category. On saving, separate tabs will be available for each floors.
- Multiple scenarios can occur while designing floor, like multiple BD, multiple FD etc. The scenarios are mentioned as below.

## 1. Scenario 1: Only one BD is present in the building and one FD in each floor



**Floors**

No of Floors: G+5  No of BD: 1  BD Floor: Select  BD Name: BD-F1

Ground Floor 1 Floor 2 Floor 3 Floor 4 Floor 5

**BD - F1**

No of FD: 1  Select FD: 1  FD Name: FD-F1 FD- BD Distance: 100

#	Unit	Unit Type	FD Connected	No of Units	No of ONU	Single Outlets	Dual Outlets	ONU- Outlet Dist	FD- ONU Dist	Action
1	Flat	1BHK	FD-F1	2	2	2	2	50	100	<input type="button" value="Delete"/>
2	Flat	1BHK	FD-F1	2	2	3	2	50	100	<input type="button" value="Delete"/>
3	Shop	1 RM	FD-F1	1	1	1	1	50	100	<input type="button" value="Delete"/>

Typical: Select

☐ Floor 3 ☐ Floor 4

Created By:

Figure 9: Capture Floor Details with one BD and one FD per floor

- User can choose the number of BDs and the floor in which BD is placed. On clicking **Apply Link** (for BD), the BD will be linked to that floor. Once a link is applied, the button will change to **Edit Link**. This will provide the provision to edit the linked BD and floor
- If a BD is present in a floor, it will be indicated as a text when that floor is selected
- User can define the number of FD for each floor
- For each FD, name and FD to BD distance in meters can be mentioned. On clicking **Apply Link** (for FD), a link will be created between the FD and the BD. Once a link is applied, the button will change to **Edit Link**. This will provide the provision to edit the linked FD and BD
- User can define the units and its type present in a floor. Units can include flats, shops etc.
- Each unit will be linked to the FD available in the floor automatically
- User can also add new units types from here which will get updated in masters as well
- User can mention the number of similar units in the floor. All the details of the design (No. of ONU, Single Outlets, Dual Outlets, ONU – Outlet distance and FD – ONU distance) will be populated automatically from masters and the values will change according to the number of units. All parameters will be multiplied based on the number of units
- There will be provision to copy the floor design details of one floor to another by selecting the typical floors and clicking the copy button
- Once all the details are captured, user will be able to proceed to next tab

## 2. Scenario 2: More than one BD is present in the building and one FD per floor

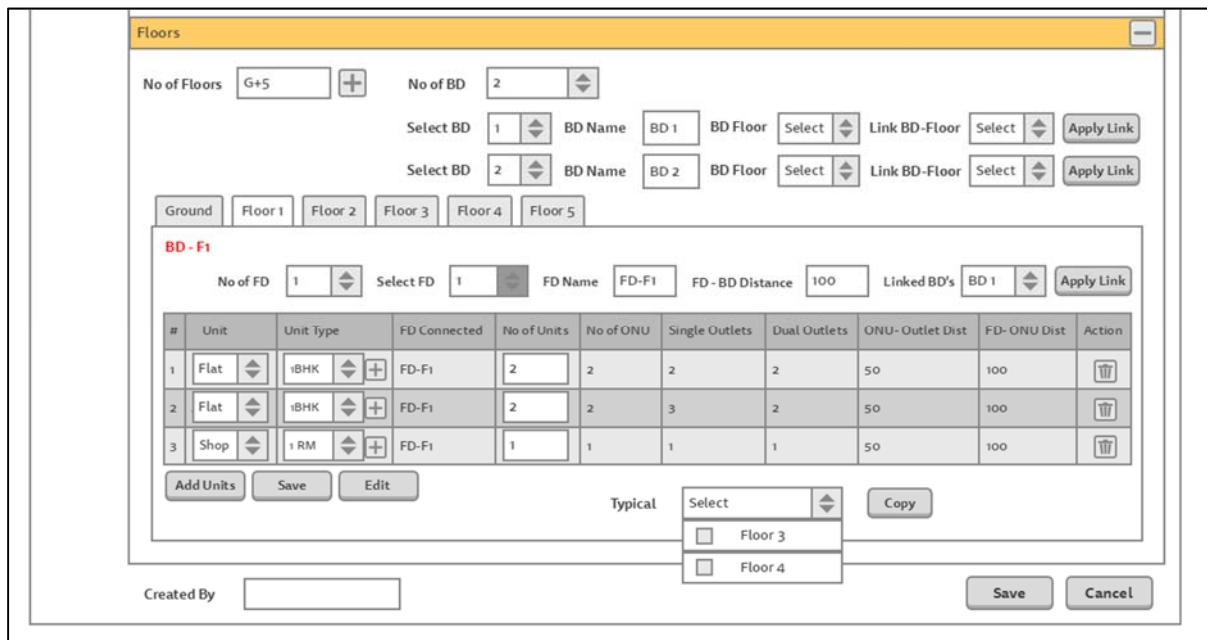
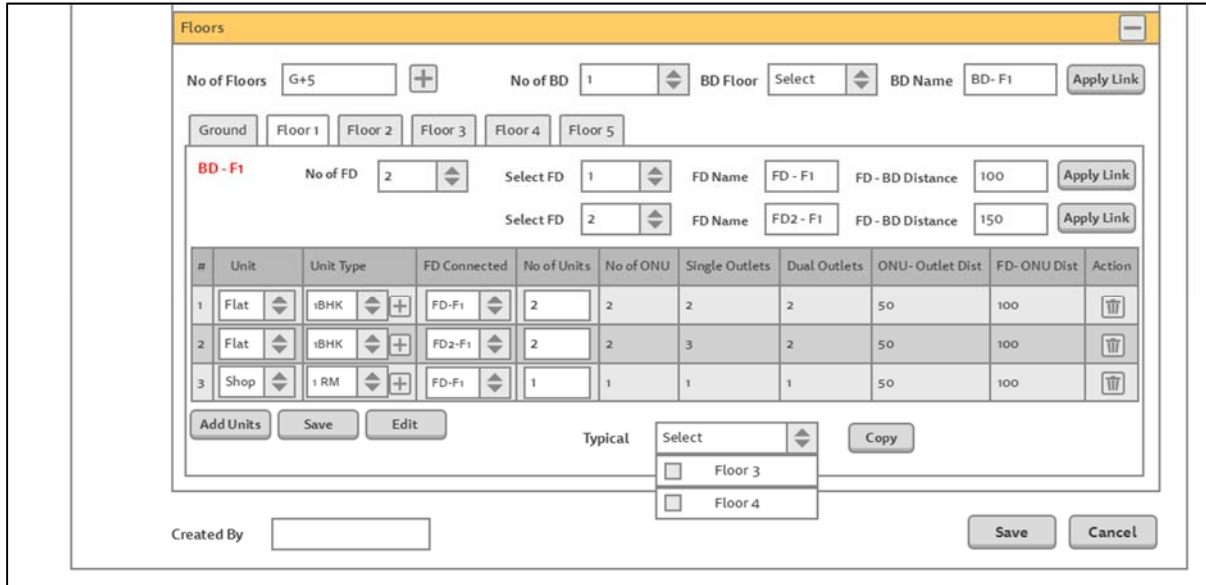


Figure 10: Capture floor details with more than one BD per building, and one FD per floor

- User can mention the number of BD while designing the building. If  $BD > 1$ , we will have separate rows for each BD
- User can select the BD and enter the name and the floor in which BD is placed
- User can also mention the floors to which BD is linked. This option can be achieved using the multi select dropdown – **Link BD to Floor**. It will help users to select all the floors to which that BD is linked. On clicking **Apply Link** (for BD), the BD will be linked to that floor
- Also there will be provision to select the BD associated with each FD. On clicking, **Apply Link** (for FD), link will be created between the FD and the selected BD
- Rest all functionalities will be similar to scenario 1

### 3. Scenario 3: Only one BD is present in the building and more than one FD is present in a floor



**Floors**

No of Floors: G+5  No of BD: 1  BD Floor: Select  BD Name: BD-F1

Ground Floor 1 Floor 2 Floor 3 Floor 4 Floor 5

**BD - F1** No of FD: 2  Select FD: 1  FD Name: FD-F1 FD-BD Distance: 100

Select FD: 2  FD Name: FD2-F1 FD-BD Distance: 150

#	Unit	Unit Type	FD Connected	No of Units	No of ONU	Single Outlets	Dual Outlets	ONU-Outlet Dist	FD-ONU Dist	Action
1	Flat	1BHK	FD-F1	2	2	2	2	50	100	<input type="button" value="v"/>
2	Flat	1BHK	FD2-F1	2	2	3	2	50	100	<input type="button" value="v"/>
3	Shop	1RM	FD-F1	1	1	1	1	50	100	<input type="button" value="v"/>

Add Units Save Edit Typical

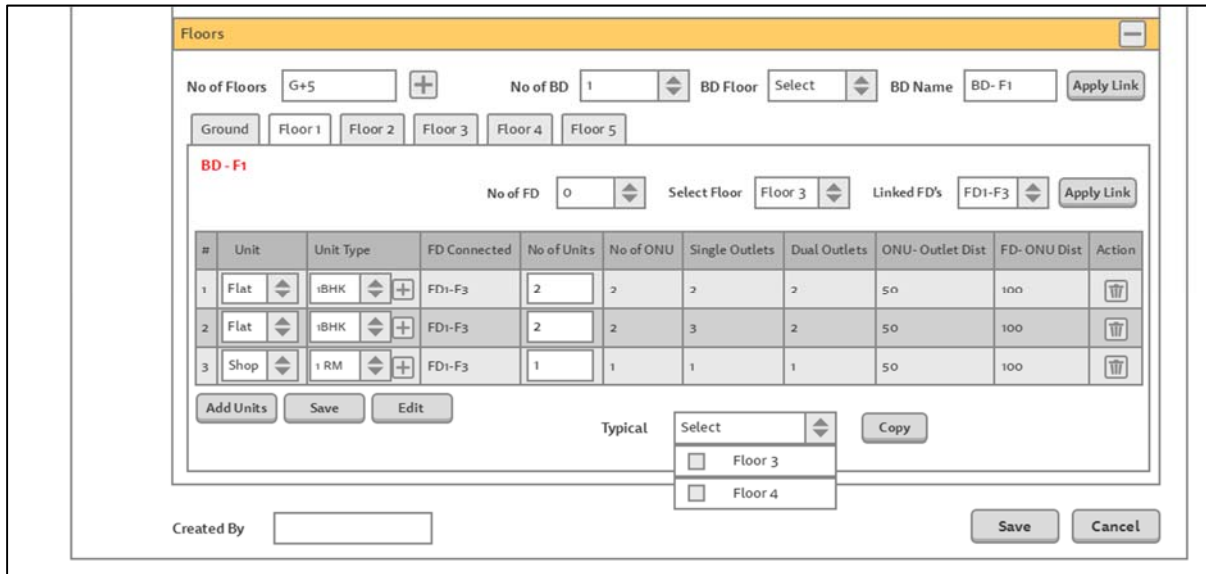
☐ Floor 3 ☐ Floor 4

Created By:  Save Cancel

Figure 11: Capture floor details with one BD per building and more than one FD per floor

- User can mention the number of FD while designing floors. If  $FD > 1$ , we will have separate rows for each FD
- User can select an FD, enter its name and the distance to the BD (in meters)
- On clicking **Apply Link** (for FD), the FD will be linked to the BD
- There will be provision to select the FD to which the each unit is connected
- Rest all functionalities will be similar to scenario 1

#### 4. Scenario 4: Only one BD is present in the building and FD is not present in a floor



The screenshot shows the 'Floors' section of the Datwyler Design Tool. It includes a table for unit details and a configuration area for a specific floor (BD - F1).

#	Unit	Unit Type	FD Connected	No of Units	No of ONU	Single Outlets	Dual Outlets	ONU - Outlet Dist	FD - ONU Dist	Action
1	Flat	iBHK	FD1-F3	2	2	2	2	50	100	
2	Flat	iBHK	FD1-F3	2	2	3	2	50	100	
3	Shop	1 RM	FD1-F3	1	1	1	1	50	100	

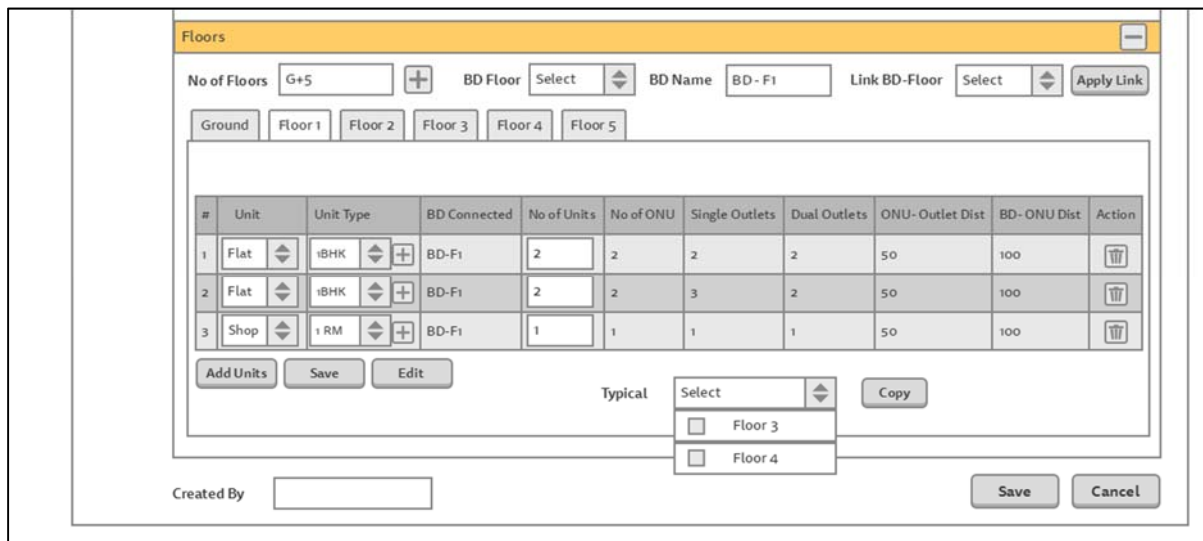
Below the table, there are buttons for 'Add Units', 'Save', and 'Edit'. A 'Typical' section shows a 'Select' dropdown with options for 'Floor 3' and 'Floor 4', and a 'Copy' button.

At the bottom, there is a 'Created By' field and 'Save' and 'Cancel' buttons.

Figure 12: Capture floor details with one BD per building and FD is not present in a floor

- If FD is not present in a floor, user can select the number of FD as 0 and select a FD from another floor to which the floor is connected
- User can choose a floor and select any FD available in that floor
- On clicking, **Apply Link** (for FD), link will be created with that FD and BD
- Rest all functionalities will be similar to scenario 1

## 5. Scenario 5: Only one BD is present in the building and FD is not present in the building

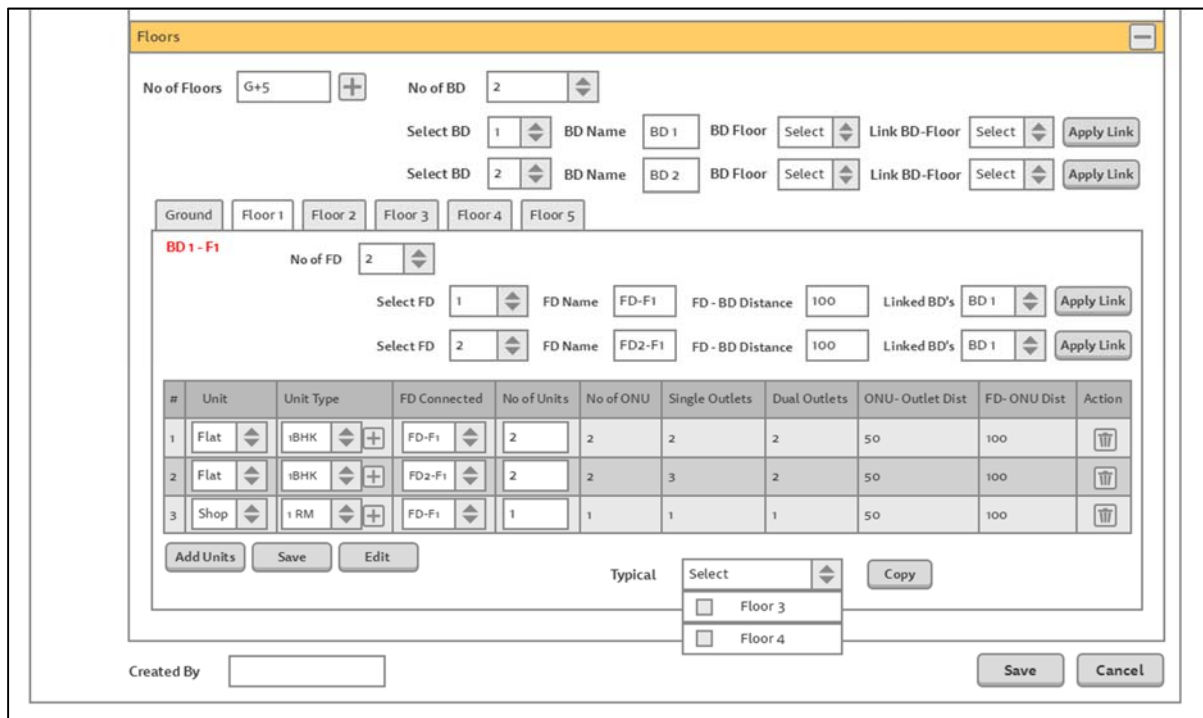


#	Unit	Unit Type	BD Connected	No of Units	No of ONU	Single Outlets	Dual Outlets	ONU-Outlet Dist	BD-ONU Dist	Action
1	Flat	1BHK	BD-F1	2	2	2	2	50	100	
2	Flat	1BHK	BD-F1	2	2	3	2	50	100	
3	Shop	1 RM	BD-F1	1	1	1	1	50	100	

Figure 13: Capture floor details with one BD per building and no FD

- Users will have the provision to mention if FD is not available in a building. It will be a checkbox and can be unchecked if FD is not present in the building.
- If FD is not present in the building, in the grid, instead of FD Connected, BD Connected will be available and instead of FD – ONU distance, it will be BD – ONU distance
- All units will be connected to BD automatically
- User can select the floor in which BD is placed
- Rest all functionalities will be similar to scenario 1

## 6. Scenario 6: Multiple BD is present in the building and multiple FD is present in a floor



**Floors**

No of Floors: G+5  No of BD: 2

Select BD: 1  BD Name: BD 1 BD Floor:  Link BD-Floor:

Select BD: 2  BD Name: BD 2 BD Floor:  Link BD-Floor:

Ground Floor 1 Floor 2 Floor 3 Floor 4 Floor 5

**BD 1 - F1**

No of FD: 2

Select FD: 1  FD Name: FD-F1 FD - BD Distance: 100 Linked BD's: BD 1

Select FD: 2  FD Name: FD2-F1 FD - BD Distance: 100 Linked BD's: BD 1

#	Unit	Unit Type	FD Connected	No of Units	No of ONU	Single Outlets	Dual Outlets	ONU - Outlet Dist	FD - ONU Dist	Action
1	Flat	1BHK	FD-F1	2	2	2	2	50	100	<input type="button" value="Delete"/>
2	Flat	1BHK	FD2-F1	2	2	3	2	50	100	<input type="button" value="Delete"/>
3	Shop	1 RM	FD-F1	1	1	1	1	50	100	<input type="button" value="Delete"/>

Typical:

☐ Floor 3 ☐ Floor 4

Created By:

Figure 14: Capture floor details with multiple BD per building and multiple FD per floor

- User can mention the number of BD while designing the building. If BD > 1, we will have separate rows for each BD
- User can select the BD and enter the name and the floor in which BD is placed.
- User can also mention the floors to which BD is linked. This option can be achieved using the multi select dropdown – **Link BD to Floor**. It will help users to select all the floors to which that BD is linked. On clicking, **Apply Link** (for BD), the system will link the BD to selected floors
- User can mention the number of FD while designing floors. If FD > 1, we will have separate rows for each FD
- User can select an FD, enter its name and the distance to the BD (in meters)
- There will be provision to select the BD associated with each FD. On clicking, **Apply Link** (for FD), link will be created with that BD
- Also there will be provision to select the FD to which the each unit is connected
- Rest all functionalities will be similar to scenario 1

- Additionally there will be provision to add more floors in the building. On clicking **Add Floors**, user will have a popup to define the number of floors for each type (parking, ground etc.). User can also define a new type of floor by adding rows

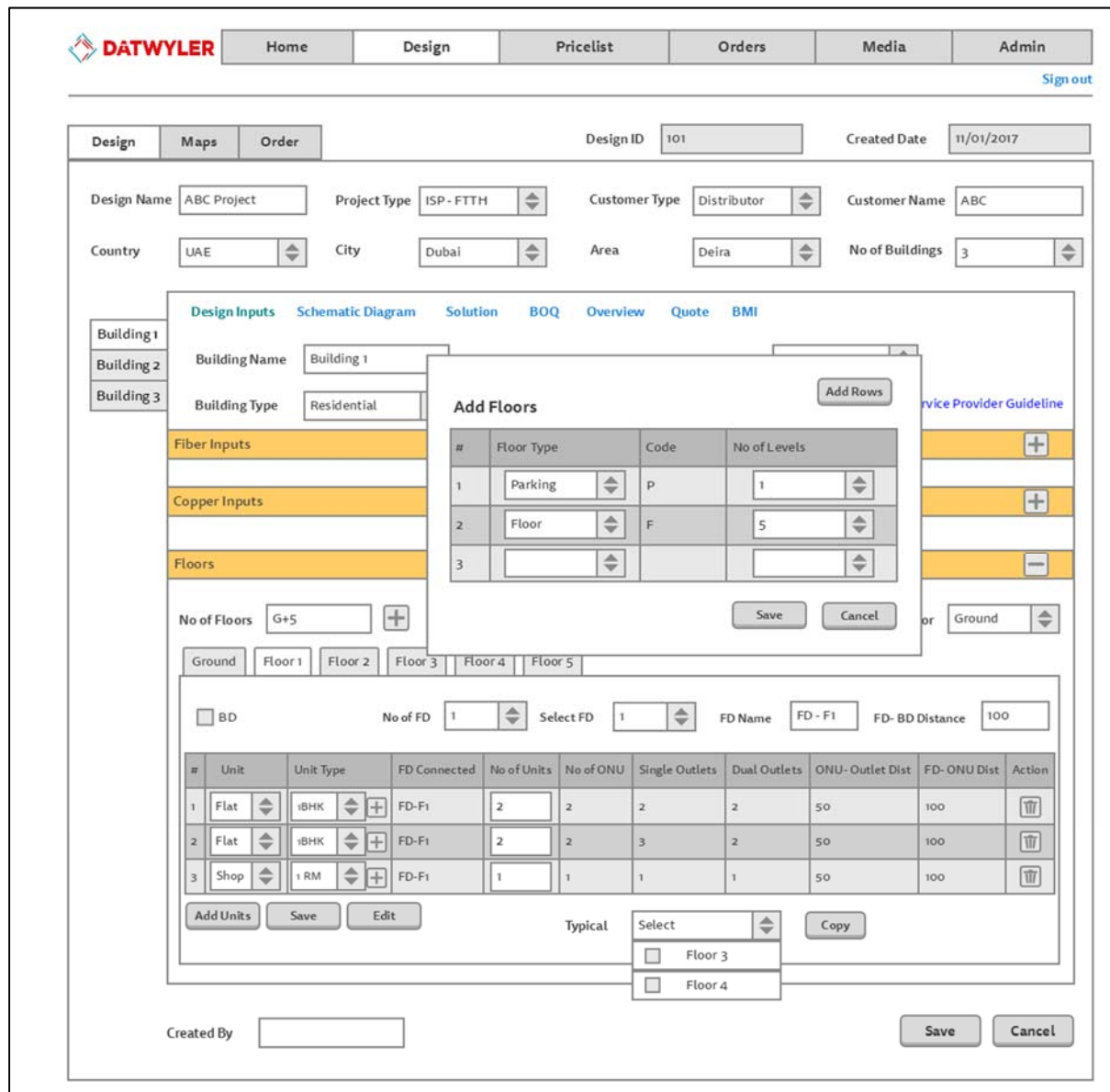


Figure 15: Add Floors




- The below table describes the floor details captured while creating a design

#	Field Name	Mandatory (Y/N)	Description
1	Floors		
1.1	No. of Floors	Y	This field will capture the number of floors available in the building
1.2	No. of BD	Y	This will be a dropdown to select the number of BDs present in the building. If multiple BDs are present, corresponding fields will change
1.3	Select BD	Y	If multiple BDs are present, user can select a BD and enter its parameters. This will be a dropdown to select the BD
1.4	BD Name	Y	Captures the name of the BD
1.5	BD Floor	Y	This will be a dropdown to select the floor in which BD is present
1.6	Link BD to Floor	Y	If multiple BDs are available, users can link the BD to multiple floors. It will be a Multi select Checkbox
1.7	No. of FD	Y	This will be a dropdown to select the number of FDs present in a floor
1.8	Select FD	Y	This will be a dropdown to select the FD available in each floor
1.9	FD Name	Y	This field captured the FD name
1.10	FD – BD Distance	Y	Captures the distance from FD to BD in meters
1.11	Typical	N	Users can select the similar floors and copy all details to that floor. It will be a Multi-select Dropdown

- The below table describes the details of the units listing grid

#	Field Name	Mandatory (Y/N)	Description
1	Floors		
1.1	Unit	Y	This will be a dropdown to select the units present in a floor. Units can include flats, shops etc.
1.2	Unit Type	Y	This will be a dropdown to select the unit type present in a floor. Unit type can include 1BHK, 2BHK, 1RM etc. There will be provision to add new unit type to the masters. It will take user to a popup to add new unit type. Once added, it will be reflected in the list.
1.3	FD Connected	CM	This will be a dropdown to select the FD connected to that unit. If only one FD is available, that FD will be selected by default
1.4	BD Connected	CM	This field will be available only if FD is not present in the building. This will display the BD to which the unit is connected
1.5	No. of Units	Y	Capture the number of similar units in the floor. Based on the entered value, all other parameters will be calculated
1.6	No. of ONU	N/A	Displays the No. of ONUs required for the unit. It will be fetched from the masters and will be multiplied by the No. of Units
1.7	Single Outlets	N/A	Displays the No. of Single Outlets required for the unit. It will be fetched from the masters and will be multiplied by the No. of Units
1.8	Dual Outlets	N/A	Displays the No. of Dual Outlets required for the unit. It will be fetched from the masters and will be multiplied by the No. of Units
1.9	ONU – Outlet Distance	N/A	Displays the average distance (meters) from ONU to Outlet in the unit. It will be fetched from the masters and will be multiplied by the No. of Units

	Requirement Specification	<b>Datwyler Design Tool</b> <b>DDT - RSD 1.1</b>
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1.10	FD – ONU Distance	N/A	Displays the average distance (meters) from FD to ONU in the unit. It will be fetched from the masters and will be multiplied by the No. of Units
1.11	BD – ONU Distance	N/A	<p>This field will be available only if FD is not present in the building.</p> <p>Displays the average distance (meters) from BD to ONU in the unit. It will be fetched from the masters and will be multiplied by the No. of Units</p>

### 1.3.2.3 Schematic Diagram

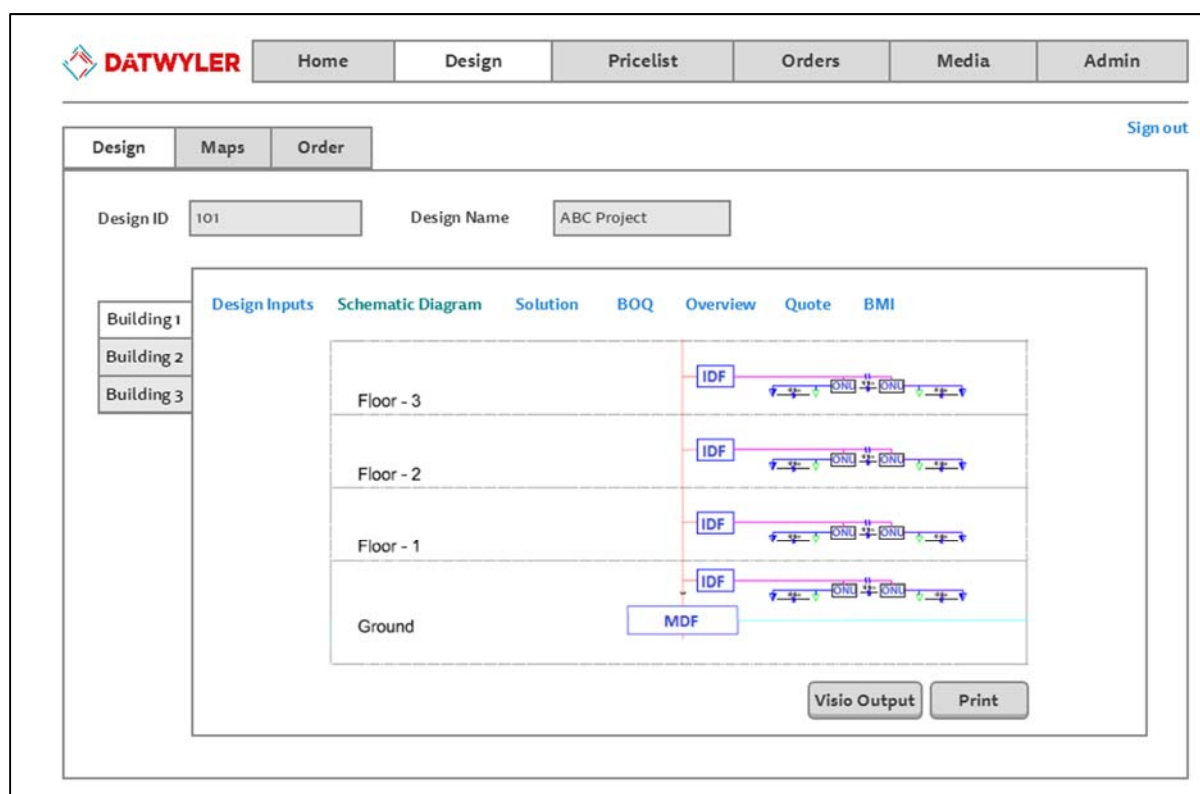
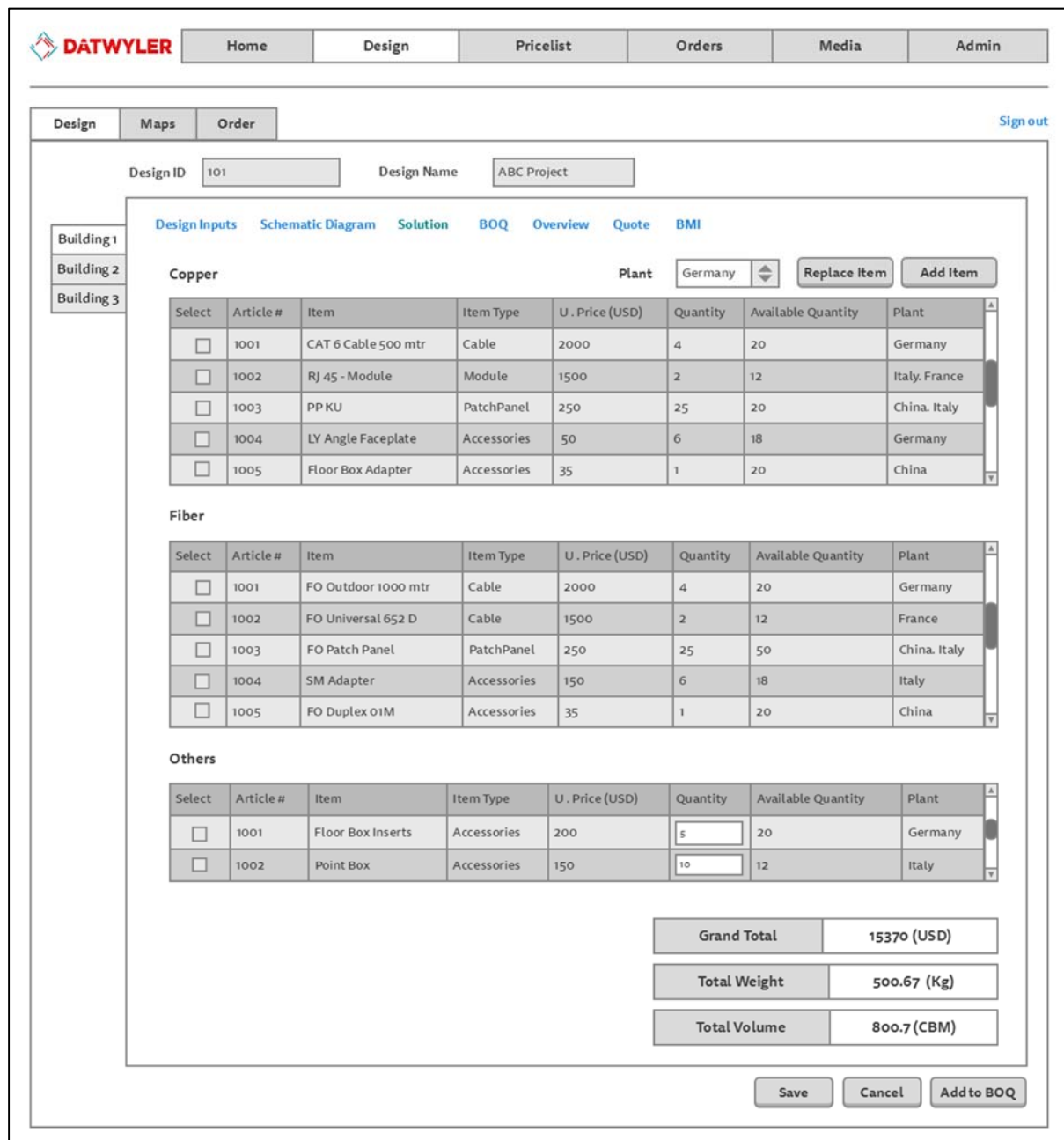


Figure 16: Schematic Diagram

- Once the design is created and saved by the user, the system will create a schematic diagram based on the design
- This will be available under the tab **Schematic Diagram**
- This will display the connections from BD to FD, ONU etc. based on the design inputs
- User will be able to get Visio output of the schematic diagram
- There will be provision to generate a pdf output of the schematic diagram
- User can view the Schematic Diagram for each building separately

### 1.3.2.4 Solution



**DATWYLER** Home Design Pricelist Orders Media Admin

Design Maps Order [Sign out](#)

Design ID: 101 Design Name: ABC Project

Design Inputs Schematic Diagram **Solution** BOQ Overview Quote BMI

Building 1 Building 2 Building 3

**Copper** Plant: Germany [Replace Item](#) [Add Item](#)

Select	Article #	Item	Item Type	U. Price (USD)	Quantity	Available Quantity	Plant
<input type="checkbox"/>	1001	CAT 6 Cable 500 mtr	Cable	2000	4	20	Germany
<input type="checkbox"/>	1002	RJ 45 - Module	Module	1500	2	12	Italy. France
<input type="checkbox"/>	1003	PP KU	PatchPanel	250	25	20	China. Italy
<input type="checkbox"/>	1004	LY Angle Faceplate	Accessories	50	6	18	Germany
<input type="checkbox"/>	1005	Floor Box Adapter	Accessories	35	1	20	China

**Fiber**

Select	Article #	Item	Item Type	U. Price (USD)	Quantity	Available Quantity	Plant
<input type="checkbox"/>	1001	FO Outdoor 1000 mtr	Cable	2000	4	20	Germany
<input type="checkbox"/>	1002	FO Universal 652 D	Cable	1500	2	12	France
<input type="checkbox"/>	1003	FO Patch Panel	PatchPanel	250	25	50	China. Italy
<input type="checkbox"/>	1004	SM Adapter	Accessories	150	6	18	Italy
<input type="checkbox"/>	1005	FO Duplex 01M	Accessories	35	1	20	China

**Others**

Select	Article #	Item	Item Type	U. Price (USD)	Quantity	Available Quantity	Plant
<input type="checkbox"/>	1001	Floor Box Inserts	Accessories	200	<input type="text" value="5"/>	20	Germany
<input type="checkbox"/>	1002	Point Box	Accessories	150	<input type="text" value="10"/>	12	Italy

**Grand Total** 15370 (USD)

**Total Weight** 500.67 (Kg)

**Total Volume** 800.7 (CBM)

[Save](#) [Cancel](#) [Add to BOQ](#)

Figure 17: Design - Solution

- Once the design parameters are captured, system will generate a solution with the required items and its quantity
- The solution will display fiber, copper and other items separately. A listing grid with the below information will be displayed for each category
  - Article Number
  - Item

- Item Type
- Unit Price (USD)
- Required Quantity
- Available Quantity
- Plant
- Total Price, Total Weight and Total Volume will be displayed at the bottom
- Grand total is the total price of all the items present in BOQ
- Total weight of all items will be calculated and will be displayed at the bottom in kg. This will be picked from the respective item article number
- Total volume of all items will be calculated and will be displayed at the bottom in CBM. This will be picked from the respective item article number
- Users can manage the quantity for the items listed under others
- Users can view the available quantity of products from multiple plants
- There will be provision to add a new item by clicking the **Add Item** button
- Users can replace an existing item by clicking **Replace Item** button
- Once the items are confirmed, user can add the items to BOQ by clicking **Add to BOQ**
- User can manage the solution for each building separately
- The below table provides the details of the listing grid

#	Column Name	Description
1.	Article Number	Shows the Identifier for the article
2.	Item	Shows the item name
3.	Item Type	Displays the item type
4.	Unit Price	Displays the price for each item
5.	Required Quantity	Shows the required quantity for each item which is auto calculated based on the design inputs
6.	Available Quantity	Shows the total available quantity in the plants selected. The availability of each item will be fetched from SAP
7.	Plant	Displays the plants from which the availability of item is fetched

#### ADD NEW ITEM

Add Item

Country
UAE

Search
Advanced Search

Article No.
12345

Product
Copper

Item Type
Cable

Bandwidth
1GB

Shielding
Shielded

Category
Cat 6

Cable Sheath
LSOH

Solid/Flexible
Solid

Plant
Germany

Select	Article #	Item	Item Type	Category	UOM	U . Price (USD)	Available Quantity	Downloads
<input type="checkbox"/>	1001	CAT6 Outdoor 1000 mtr	Cable	CAT6	Reel	2000	25	
<input type="checkbox"/>	1002	CAT6 cable Orange	Cable	CAT6	Reel	1500	50	
<input type="checkbox"/>	1003	PP CUP black	Patch Panel	CAT6	PC	250	60	
<input type="checkbox"/>	1004	SM Adapter	Patch Panel	CAT6	PC	150	20	
<input type="checkbox"/>	1005	CAT6 PVC 01M	Patch Cord	CAT6	PC	35	80	
<input type="checkbox"/>	1006	CAT6 PVC 02M	Patch Cord	CAT6	PC	45	75	

Save
Cancel

Figure 18: Add New Item to Solution

- On clicking the **Add Item** button, a pop up will open, where the user have a listing of all the items present in the database
- User can select the required products and add to the solution
- Users will have a keyword search which will search all the products in the database and an Article number based search
- Also, there will be filters which filter the list based on product (fiber or copper) and its specifications
  - Based on the selected product and item type, the specifications of the products will be available under filters
  - For Fibre Cable, the below filters will be available
    - Fibre Type
    - No of Fibres
    - Maximum Tensile Load
    - Reaction to Fire
  - For Fibre Patch Panel, the below filters will be available
    - PP Dimension
    - PP Loaded/Unloaded
    - Connector Type

	Requirement Specification	<b>Datwyler Design Tool</b> <b>DDT - RSD 1.1</b>
--	---------------------------	---

- For Fibre Patch Cord, the below filters will be available
  - BD – PC Length
  - FD – PC Length
- For Copper Cable, the below filters will be available
  - Bandwidth
  - Shielding
  - Category
  - Cable Sheath
  - Solid/Flexible
- For Copper Patch Panel, the below filters will be available
  - PP Dimension
  - PP Loaded/Unloaded
  - PP Color
- For Copper Faceplate, the below filters will be available
  - Faceplate Type
  - Faceplate Standard
- Users can add items from multiple plants to meet the required quantity
- User can select multiple products and on clicking **Save**, those items will be added to the solution. These items will be added under the category “Others”

## REPLACE ITEM

Replace Item

Country

UAE

[Advanced Search](#)

Item Type

Cable

Plant

Germany

Select	Article #	Item	Item Type	Category	UOM	U. Price (USD)	Available Quantity	Downloads
<input type="checkbox"/>	1001	FO Outdoor 1000 mtr	Cable	OS2	Reel	2000	25	
<input type="checkbox"/>	1002	FO Universal 652 D	Cable	OS2	Reel	1500	50	

Replace

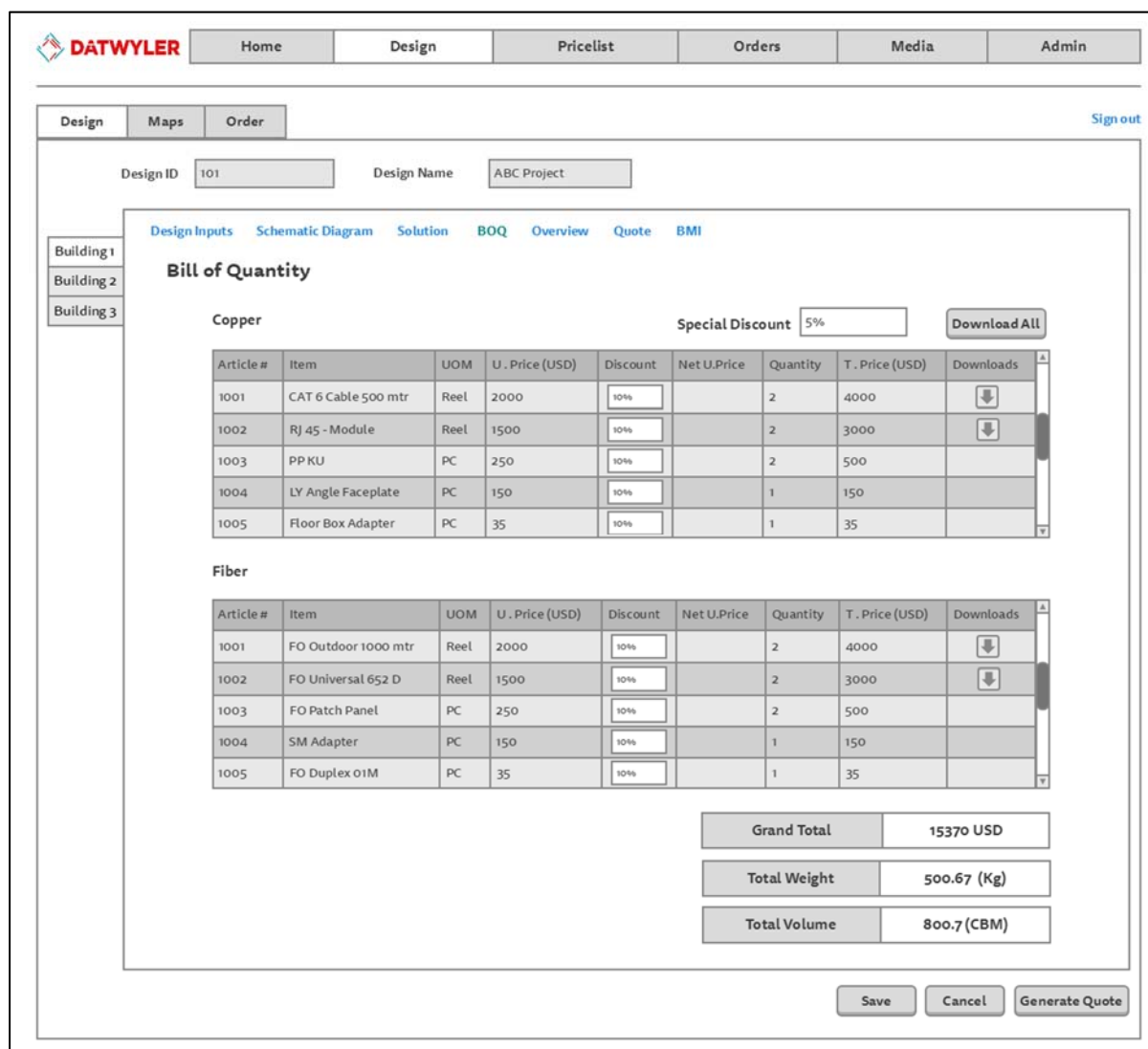
Cancel

Figure 19: Replace an existing Item in the Solution

- **Replace Item** button will be available when the user selects an item present in the solution
- On clicking the **Replace Item** button, a pop up will open, where the user have a listing of items available in the database. The grid will be filtered with the item type selected to replace
- User can select the required product and add to the solution. This will replace the current item present in the solution and new item will be reflected under the same category
- Users will have a keyword search which will search all the products in the filtered list
- User can select only single products while replacing. On clicking Replace, the selected item will be replaced and new item will be reflected under the same category



### 1.3.2.5 Bill of Quantity (BOQ)



The screenshot shows the Datwyler Design Tool interface. The top navigation bar includes 'Home', 'Design', 'Pricelist', 'Orders', 'Media', and 'Admin'. The 'Design' tab is active. Below the navigation bar, there are tabs for 'Design', 'Maps', and 'Order'. The 'Design' tab is selected, and the 'Design Inputs' sub-tab is active. The 'Design Inputs' section shows 'Design ID: 101' and 'Design Name: ABC Project'. The 'BOQ' sub-tab is selected, and the 'Bill of Quantity' section is displayed. The 'Bill of Quantity' section is divided into two categories: 'Copper' and 'Fiber'. Each category has a table of items with columns: Article #, Item, UOM, U. Price (USD), Discount, Net U. Price, Quantity, T. Price (USD), and Downloads. The 'Copper' category has 5 items, and the 'Fiber' category has 5 items. A 'Special Discount' of 5% is applied. A 'Download All' button is present. At the bottom right, there are buttons for 'Save', 'Cancel', and 'Generate Quote'. Summary statistics are shown at the bottom right: Grand Total: 15370 USD, Total Weight: 500.67 (Kg), and Total Volume: 800.7 (CBM).

**Design Inputs**   **Schematic Diagram**   **Solution**   **BOQ**   **Overview**   **Quote**   **BMI**

**Design ID** 101   **Design Name** ABC Project

**Building 1**  
**Building 2**  
**Building 3**

**Bill of Quantity**

**Copper**   **Special Discount** 5%   **Download All**

Article #	Item	UOM	U. Price (USD)	Discount	Net U. Price	Quantity	T. Price (USD)	Downloads
1001	CAT 6 Cable 500 mtr	Reel	2000	10%		2	4000	
1002	RJ 45 - Module	Reel	1500	10%		2	3000	
1003	PP KU	PC	250	10%		2	500	
1004	LY Angle Faceplate	PC	150	10%		1	150	
1005	Floor Box Adapter	PC	35	10%		1	35	

**Fiber**

Article #	Item	UOM	U. Price (USD)	Discount	Net U. Price	Quantity	T. Price (USD)	Downloads
1001	FO Outdoor 1000 mtr	Reel	2000	10%		2	4000	
1002	FO Universal 652 D	Reel	1500	10%		2	3000	
1003	FO Patch Panel	PC	250	10%		2	500	
1004	SM Adapter	PC	150	10%		1	150	
1005	FO Duplex 01M	PC	35	10%		1	35	

**Grand Total** 15370 USD

**Total Weight** 500.67 (Kg)

**Total Volume** 800.7 (CBM)

**Save**   **Cancel**   **Generate Quote**

Figure 20: Design - Bill of Quantity

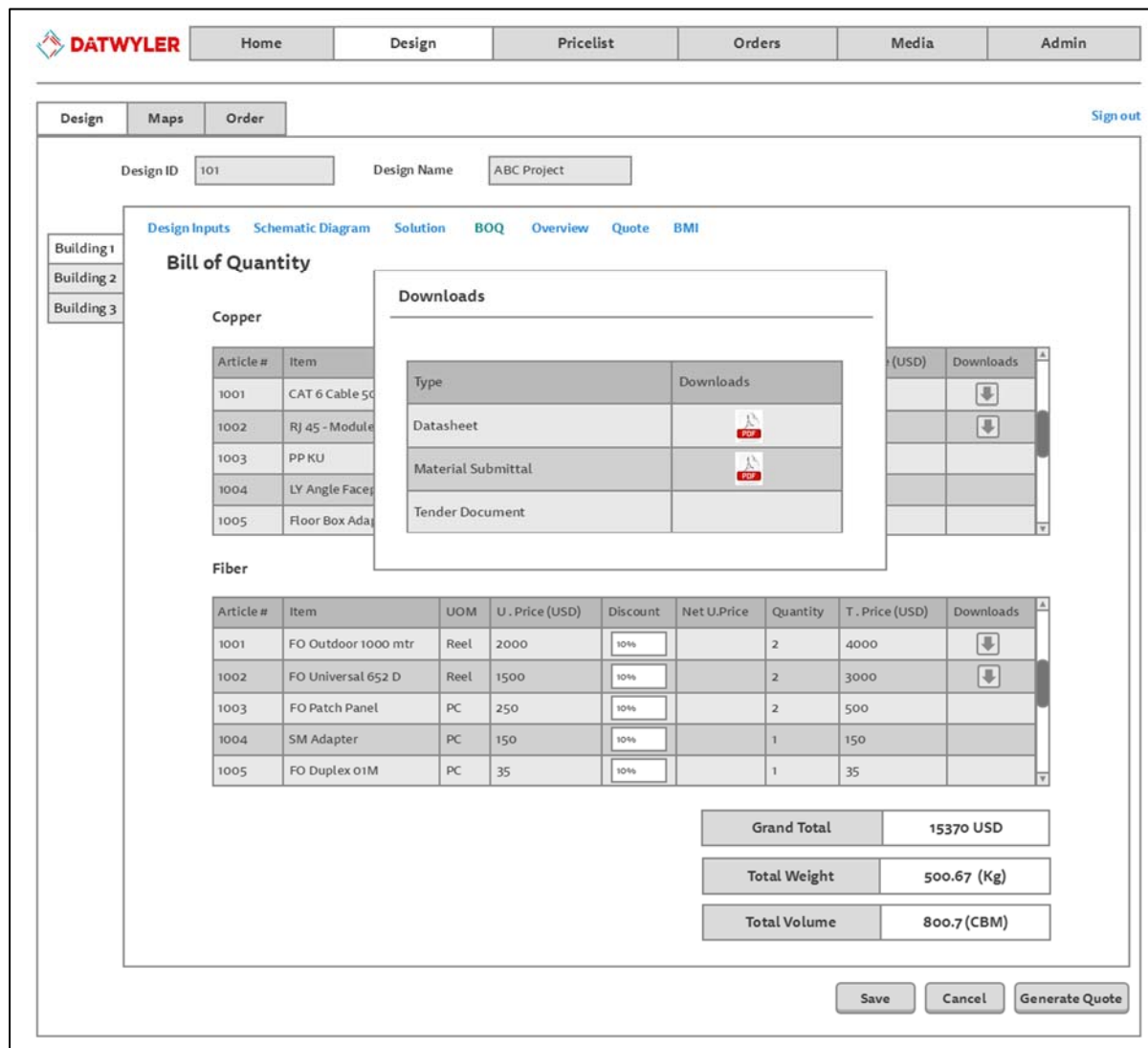
- BOQ will display the summary of all the items present in solution. It will display fiber, copper and other items separately. A listing grid with the below information will be displayed for each category
  - Article #
  - Item
  - UOM
  - Unit Price (USD)
  - Discount
  - Net Unit Price
  - Quantity

- Total Price
- Downloads
- Users will be able to manage the discount for each items in the grid
- There will be provision to provide a special discount, which will be an add-on discount, applied to all items in the BOQ
- Grand Total, Total Weight and Total Volume will be displayed at the bottom
- Grand total is the total price of all the items present in BOQ
- Total weight of all items will be calculated and will be displayed at the bottom in kg. This will be picked from the respective item article number
- Total volume all items will be calculated and will be displayed at the bottom in CBM. This will be picked from the respective item article number
- User can manage the BOQ for each building separately
- Users will be able to generate quote for the items present in BOQ
- The below table provides the details of the listing grid

#	Column Name	Description
1.	Article #	Shows the Identifier for the article
2.	Item	Shows the item name
3.	UOM	Displays the unit of measure of item
4.	Unit Price	Displays the price for each item
5.	Discount	Shows the discount offered for each item. It will be textbox, where user can enter the discount value in percentage. Standard discount will apply to all applicable partners, which is entered in the "Manage Partners" page by Admin. It will be the minimum discount value applicable for that partner. Users can increase the discount percentage, but cannot reduce it below the minimum value set by Admin
6.	Net Unit Price	Displays the net unit price of each item after the discount. The special discount entered also will be reduced while calculating the net unit price
7.	Quantity	Shows the required quantity for each item

8.	Total Price	Displays the total price for each item. This is calculated as Net Unit Price multiplied by Quantity
9.	Downloads	Provides the ability to download the relevant documents

## DOWNLOAD DOCUMENTS



**DATWYLER** Home Design Pricelist Orders Media Admin

Design Maps Order [Sign out](#)

Design ID: 101 Design Name: ABC Project

Design Inputs Schematic Diagram Solution **BOQ** Overview Quote BMI

**Building 1**  
Building 2  
Building 3

**Bill of Quantity**



**Copper**

Article #	Item	UOM	U. Price (USD)	Discount	Net U.Price	Quantity	T. Price (USD)	Downloads
1001	CAT 6 Cable 50							
1002	RJ 45 - Module							
1003	PP KU							
1004	LY Angle Facep							
1005	Floor Box Adap							

**Fiber**

Article #	Item	UOM	U. Price (USD)	Discount	Net U.Price	Quantity	T. Price (USD)	Downloads
1001	FO Outdoor 1000 mtr	Reel	2000	10%		2	4000	
1002	FO Universal 652 D	Reel	1500	10%		2	3000	
1003	FO Patch Panel	PC	250	10%		2	500	
1004	SM Adapter	PC	150	10%		1	150	
1005	FO Duplex 01M	PC	35	10%		1	35	

**Downloads**

Type	Downloads
Datasheet	
Material Submittal	
Tender Document	

**Summary**

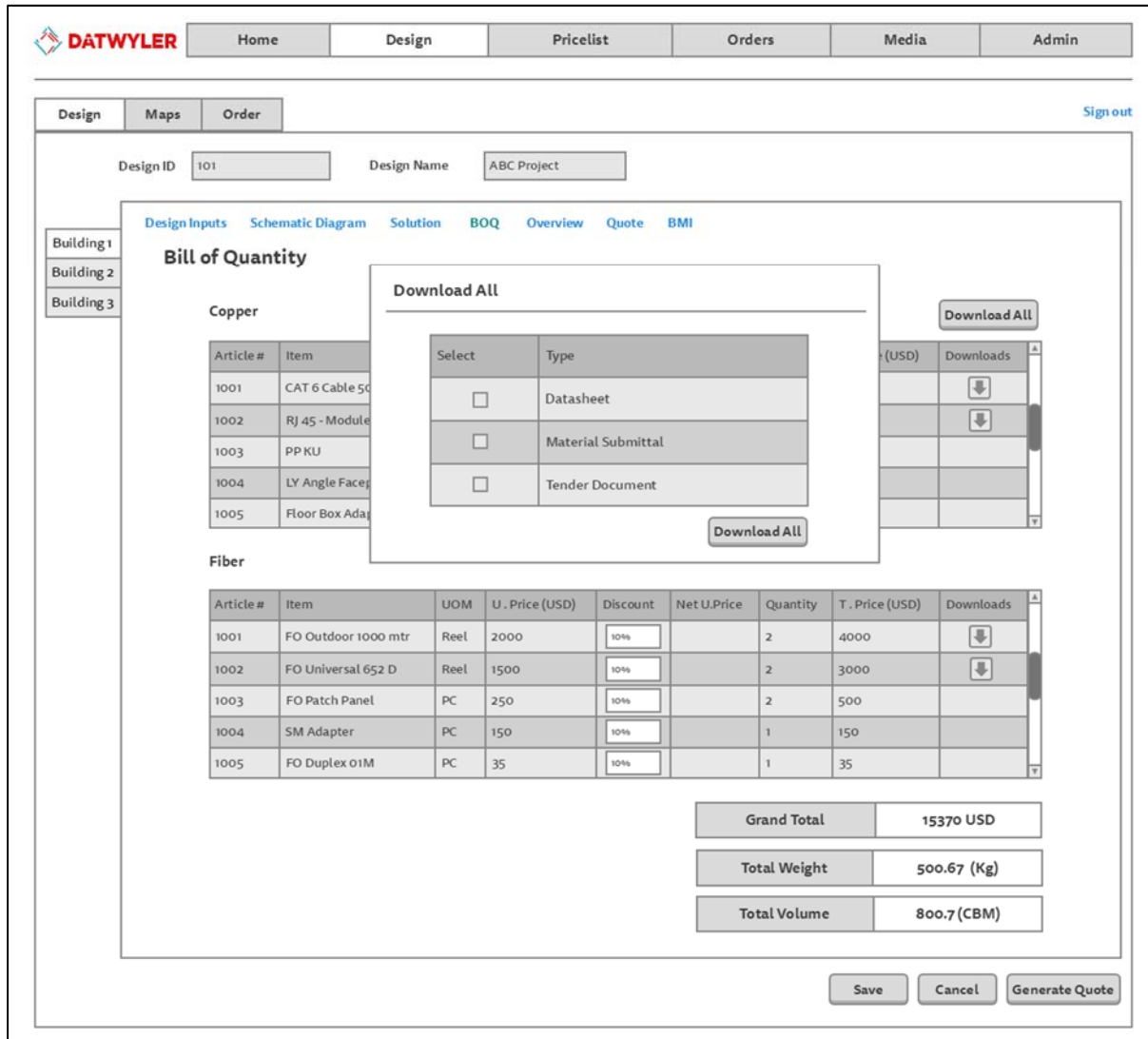
Grand Total	15370 USD
Total Weight	500.67 (Kg)
Total Volume	800.7 (CBM)

Save Cancel Generate Quote

Figure 21: Download Documents

- There will be provision to download the relevant documents for each item
- On clicking **Download**, a pop up will appear, which will list the documents available for the item. User can choose the document and download the file

## DOWNLOAD ALL DOCUMENTS



The screenshot shows the Datwyler Design Tool interface. The top navigation bar includes Home, Design, Pricelist, Orders, Media, and Admin. The Design section is active, showing Design ID 101 and Design Name ABC Project. The left sidebar lists Building 1, Building 2, and Building 3. The main content area displays the 'Bill of Quantity' section, which is divided into Copper and Fiber categories. A 'Download All' pop-up is visible, listing document types: Datasheet, Material Submittal, and Tender Document. The pop-up has a 'Download All' button. The main content area also has a 'Download All' button. The main content area displays a table of items with columns: Article #, Item, UOM, U. Price (USD), Discount, Net U. Price, Quantity, T. Price (USD), and Downloads. The table lists 10 items, including CAT 6 Cable, RJ 45 - Module, PPKU, LY Angle Face, Floor Box Adap, FO Outdoor 1000 mtr, FO Universal 652 D, FO Patch Panel, SM Adapter, and FO Duplex 01M. The table also shows a Grand Total of 15370 USD, Total Weight of 500.67 (Kg), and Total Volume of 800.7 (CBM). The interface includes buttons for Save, Cancel, and Generate Quote.

**Design Inputs** **Schematic Diagram** **Solution** **BOQ** **Overview** **Quote** **BMI**

**Design ID** 101 **Design Name** ABC Project

**Building 1**  
**Building 2**  
**Building 3**

**Bill of Quantity**

**Copper**

Article #	Item
1001	CAT 6 Cable 50
1002	RJ 45 - Module
1003	PPKU
1004	LY Angle Face
1005	Floor Box Adap

**Fiber**

Article #	Item	UOM	U. Price (USD)	Discount	Net U. Price	Quantity	T. Price (USD)	Downloads
1001	FO Outdoor 1000 mtr	Reel	2000	10%		2	4000	
1002	FO Universal 652 D	Reel	1500	10%		2	3000	
1003	FO Patch Panel	PC	250	10%		2	500	
1004	SM Adapter	PC	150	10%		1	150	
1005	FO Duplex 01M	PC	35	10%		1	35	

**Download All**

Select	Type
<input type="checkbox"/>	Datasheet
<input type="checkbox"/>	Material Submittal
<input type="checkbox"/>	Tender Document

**Download All**

**Grand Total** 15370 USD

**Total Weight** 500.67 (Kg)


**Total Volume** 800.7 (CBM)

**Save** **Cancel** **Generate Quote**

Figure 22: Download All Documents

- There will be provision to download all the documents at once
- On clicking **Download All**, a pop up will appear, which will list the type of documents available. User can select the type of documents and download all the files at once

### 1.3.2.6 Overview



Home
Design
Pricelist
Orders
Media
Admin

Design
Maps
Order

Design ID 101
Design Name ABC Project

Building 1
Building 2
Building 3

BOQ Overview
Design Inputs
Schematic Diagram
Solution
BOQ
Overview
Quote
BMI

Product Copper
Solution Code 26735
Go
Original Price
Special Discount 5%

Building 1

Copper

Article #	Item	UOM	U. Price (USD)	Discount	Net U.Price	Quantity	T. Price (USD)	Downloads
1001	CAT 6 Cable 500 mtr	Reel	2000	10%		2	4000	
1002	RJ 45 - Module	Reel	1500	10%		2	3000	
1003	PP KU	PC	250	10%		2	500	

Fiber

Article #	Item	UOM	U. Price (USD)	Discount	Net U.Price	Quantity	T. Price (USD)	Downloads
1001	FO Outdoor 1000 mtr	Reel	2000	10%		2	4000	
1002	FO Universal 652 D	Reel	1500	10%		2	3000	
1003	FO Patch Panel	PC	250	10%		2	500	

Building 2

Copper

Article #	Item	UOM	U. Price (USD)	Discount	Net U.Price	Quantity	T. Price (USD)	Downloads
1001	CAT 6 Cable 500 mtr	Reel	2000	10%		2	4000	
1002	RJ 45 - Module	Reel	1500	10%		2	3000	
1003	PP KU	PC	250	10%		2	500	

Fiber

Article #	Item	UOM	U. Price (USD)	Discount	Net U.Price	Quantity	T. Price (USD)	Downloads
1001	FO Outdoor 1000 mtr	Reel	2000	10%		2	4000	
1002	FO Universal 652 D	Reel	1500	10%		2	3000	
1003	FO Patch Panel	PC	250	10%		2	500	

Total

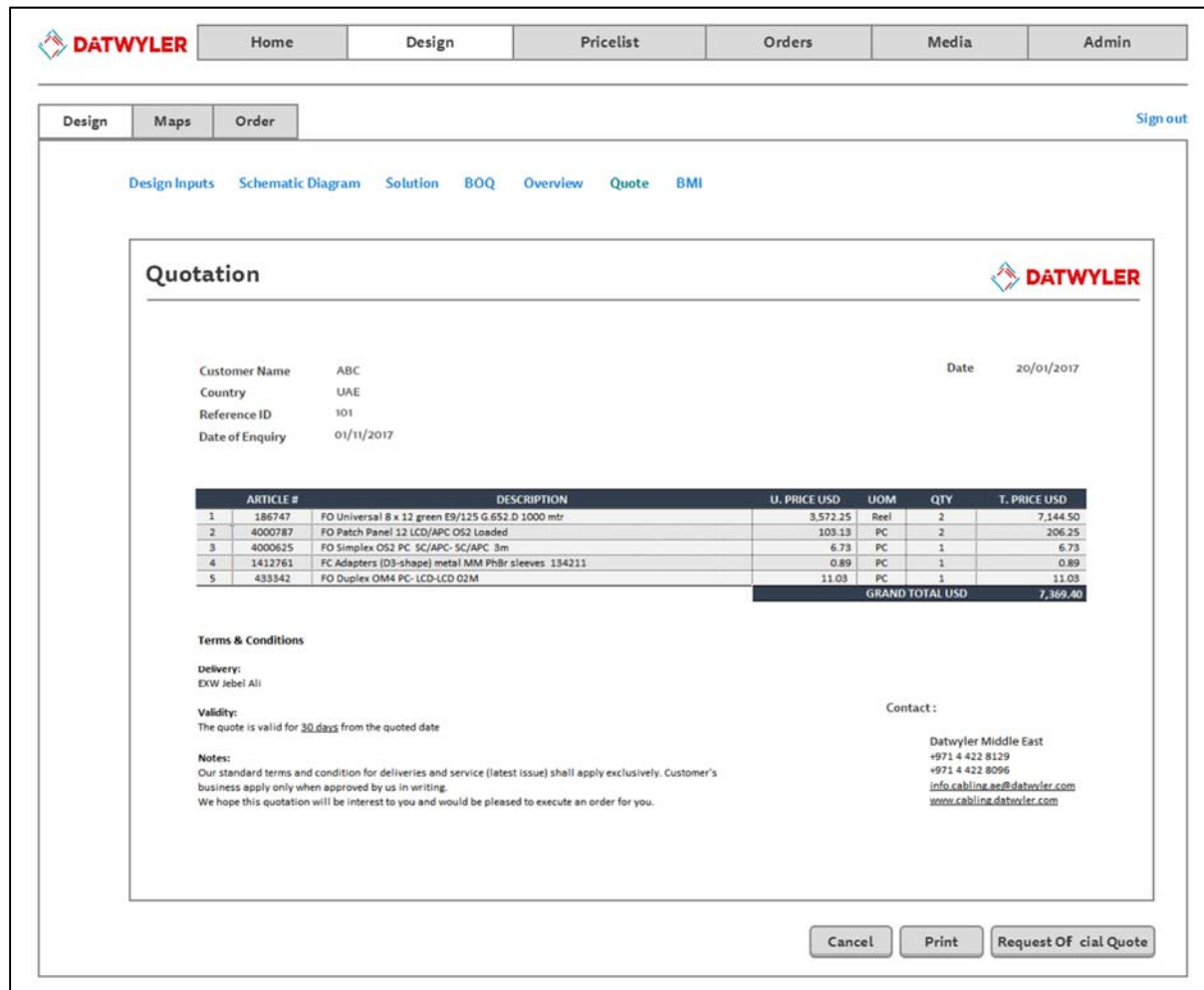
Grand Total 15370 (USD)
Total Weight 500.67 (Kg)
Total Volume 800.7 (CBM)

Save
Cancel
Generate Quote

Figure 23: Design - BOQ Overview

- This page will display the overview of BOQ for all buildings. It will display fiber, copper and other items separately. A listing grid with the below information will be displayed for each category
  - Article #
  - Item
  - UOM
  - Unit Price (USD)
  - Discount
  - Net Unit Price
  - Quantity
  - Total Price
  - Downloads
- Users will be able to manage the discount for each items in the grid
- There will be provision to provide a special discount, which will be an add-on discount, applied to all items in the BOQ
- Grand Total, Total Weight and Total Volume for all the buildings together will be calculated and displayed at the bottom
- Grand total is the total price of all the items present in BOQ
- Total weight of all items will be calculated and will be displayed at the bottom in kg. This will be picked from the respective item article number
- Total volume all items will be calculated and will be displayed at the bottom in CBM. This will be picked from the respective item article number
- There will be provision to change the solution and compare the prices of products from another solution. This option will be available only for designs created using “custom” and “predefined solution”
- Users can select required product and solution and view the item price. On clicking **Go**, the items present in the selected solution will be populated. Once solution is changed, user will have a button, **Original Price** to come back and proceed with the original items in the BOQ
- The quantity will remain same. Additional items added by the user will not be altered
- This will be common to all buildings
- There will be provision to download the relevant documents for each item
- On clicking **Download**, a pop up will appear, which will list the documents available for the item. User can choose the document and download the file

### 1.3.2.7 Quote



**Quotation**

Customer Name: ABC  
Country: UAE  
Reference ID: 101  
Date of Enquiry: 01/11/2017

Date: 20/01/2017

ARTICLE #	DESCRIPTION	U. PRICE USD	UOM	QTY	T. PRICE USD
1	186747 FO Universal 8 x 12 green E9/125 G 652 D 1000 mtr	3,572.25	Reel	2	7,144.50
2	4000787 FO Patch Panel 12 LCD/APC OS2 Loaded	103.13	PC	2	206.25
3	4000625 FO Simplex OS2 PC SC/APC SC/APC 3m	6.73	PC	1	6.73
4	1412761 FC Adapters (D3-shape) metal MM PhR sleeves 134211	0.89	PC	1	0.89
5	433342 FO Duplex OM4 PC-LCD-LCD 02M	11.03	PC	1	11.03
<b>GRAND TOTAL USD</b>					<b>7,369.40</b>

**Terms & Conditions**

**Delivery:**  
EXW Jebel Ali

**Validity:**  
The quote is valid for 30 days from the quoted date

**Notes:**  
Our standard terms and condition for deliveries and service (latest issue) shall apply exclusively. Customer's business apply only when approved by us in writing.  
We hope this quotation will be interest to you and would be pleased to execute an order for you.

**Contact:**  
Datwyler Middle East  
+971 4 422 8129  
+971 4 422 8096  
[info.cabling.ae@datwyler.com](mailto:info.cabling.ae@datwyler.com)  
[www.cabling.datwyler.com](http://www.cabling.datwyler.com)

Buttons: Cancel, Print, Request Official Quote

Figure 24: Design – Quote

- Once the items are confirmed, user will have the provision to generate quote
- All the items in the BOQ will be listed in the quote, without any categorization
- A listing grid with the below information will be displayed
  - Article #
  - Description
  - Unit Price (USD)
  - UOM
  - Quantity
  - Total Price (USD)
- The quote will also include the Customer Name, Country, Reference ID and Date of Enquiry

- It will also include the Terms and Conditions and Contact details of the Partner. Terms and Conditions can be defined by the Admin, while adding a new partner. Those details will be fetched and displayed in the quote
- There will be provisions to print the quotation and place a request for an official quotation
- On clicking **Print**, the system will generate a print of the quote
- There will be provision to generate excel and word output
- On clicking **Request Official Quote**, a mail will be sent to the respective team to generate quote. It will include the design details created so far

### 1.3.3 Map

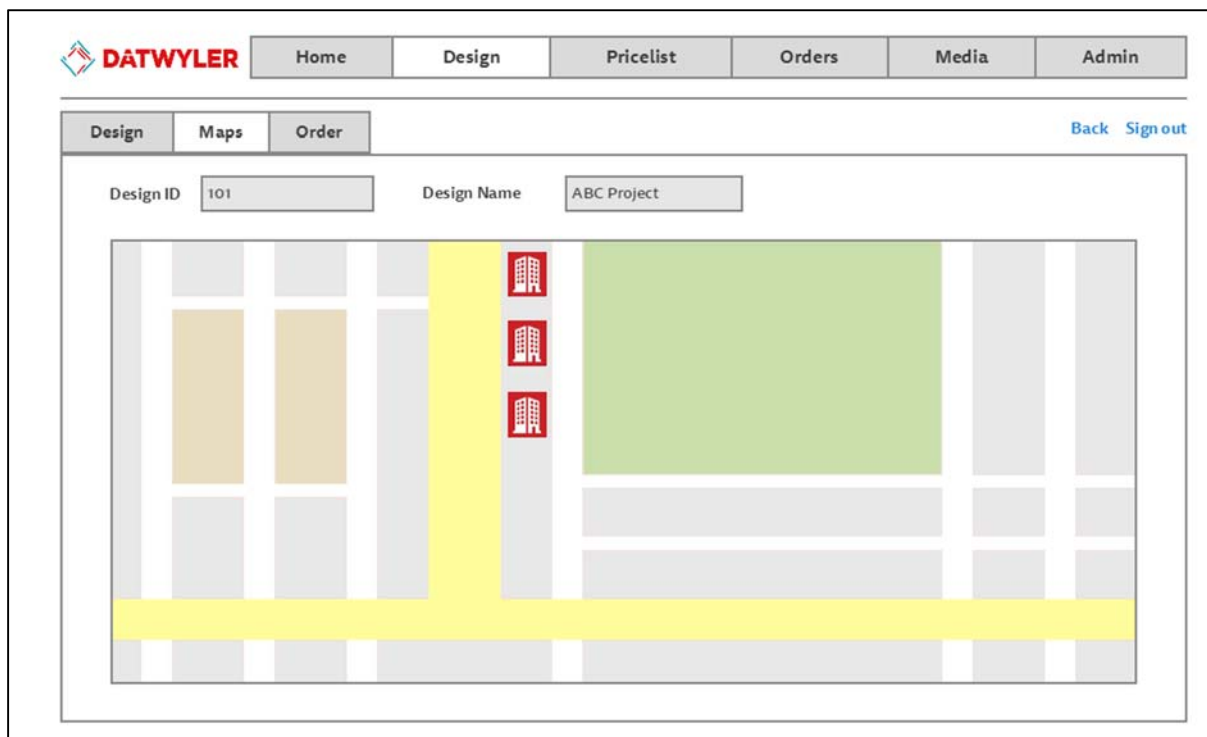
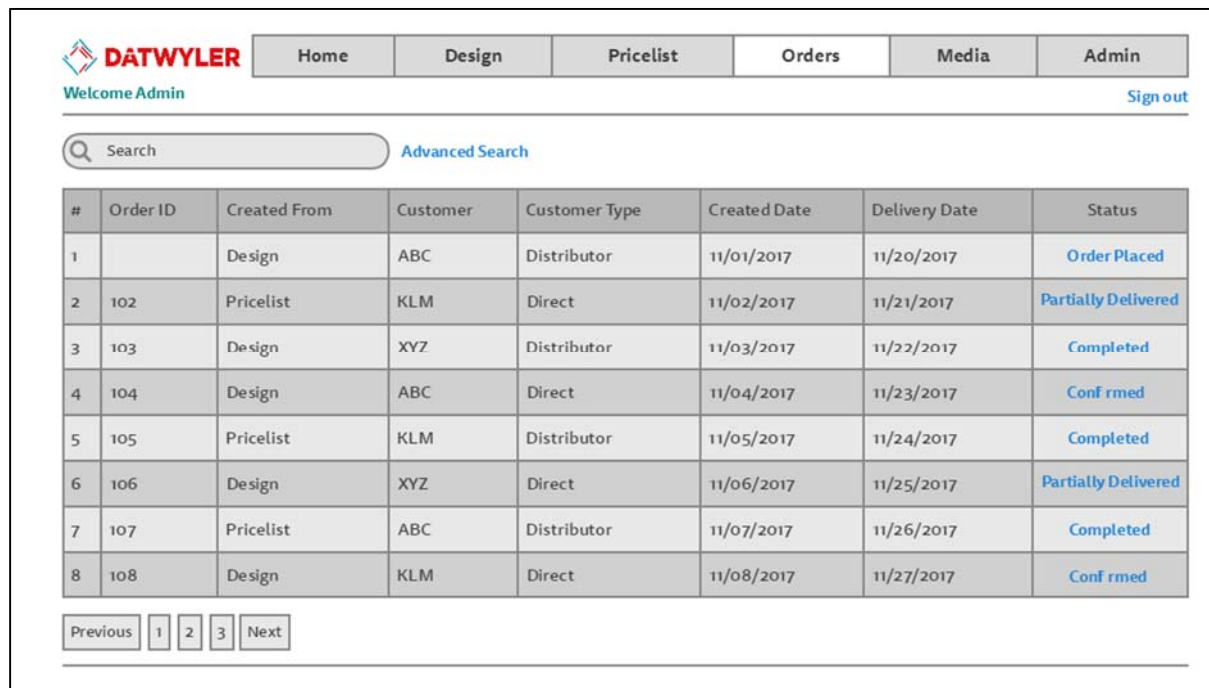


Figure 25: Design – Map View

- The buildings created in the design will be represented in a map based on the area selected
- All the buildings in the design will be displayed in the map together
- Users can view the location by selecting the **Map** option
- Design ID and Design Name will be displayed along with the map



## 1.4 Order List



#	Order ID	Created From	Customer	Customer Type	Created Date	Delivery Date	Status
1		Design	ABC	Distributor	11/01/2017	11/20/2017	Order Placed
2	102	Pricelist	KLM	Direct	11/02/2017	11/21/2017	Partially Delivered
3	103	Design	XYZ	Distributor	11/03/2017	11/22/2017	Completed
4	104	Design	ABC	Direct	11/04/2017	11/23/2017	Confirmed
5	105	Pricelist	KLM	Distributor	11/05/2017	11/24/2017	Completed
6	106	Design	XYZ	Direct	11/06/2017	11/25/2017	Partially Delivered
7	107	Pricelist	ABC	Distributor	11/07/2017	11/26/2017	Completed
8	108	Design	KLM	Direct	11/08/2017	11/27/2017	Confirmed

Figure 26: Order Listing

The Order List can be selected from the Main menu. It will be fetched from SAP.

There will be a key word search and advanced search. Advanced search will include combined search of Created/Delivery date, Customer Type and Status

There will be a listing grid with the below information:

- Order ID
- Created From
- Customer
- Customer Type
- Created Date
- Delivery Date
- Status

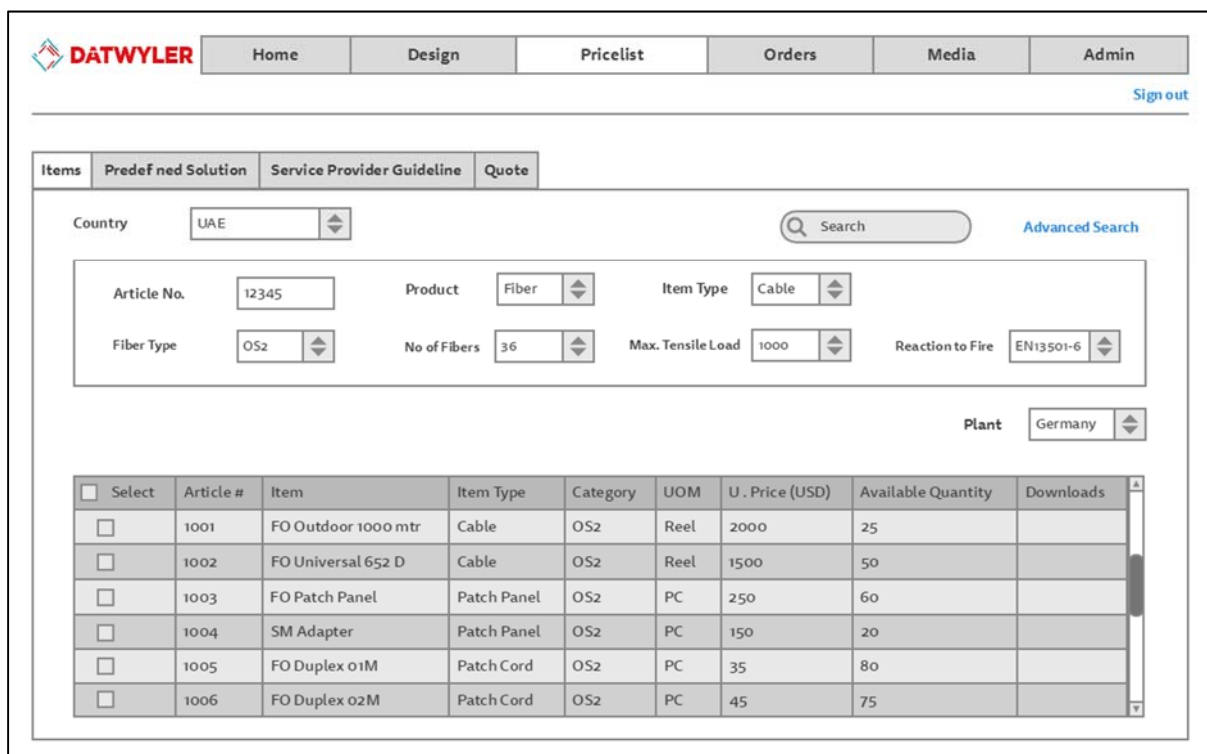
The below table describes the fields related to order.

#	Column Name	Description
1.	Order ID	Shows the Identifier of SAP order
2.	Created From	Shows whether the design is created from a Design or Pricelist
3.	Customer	Displays the name of the customer
4.	Customer Type	Displayed whether the customer is a “direct” customer or a “partner” of Datwyler
5.	Created Date	Shows the date on which order is created
6.	Delivery Date	Shows the expected delivery date
7.	Status	Shows the Status of the order <ul style="list-style-type: none"> <li>• <b>Order Placed</b> are the orders that are placed by the customer</li> <li>• <b>Confirmed</b> are one which are confirmed by Datwyler/Customer</li> <li>• <b>Partially Delivered</b> are the orders that are delivered partially</li> <li>• <b>Completed</b> are the orders that are delivered and closed</li> </ul> These details will be fetched from SAP

## 1.5 Pricelist

The Pricelist module is used to maintain the item list against products, create predefined solutions by grouping specific item, create service provider guideline based solutions and generating quote by using the item list, predefined solutions or SPG solutions

### 1.5.1 Items



Select	Article #	Item	Item Type	Category	UOM	U. Price (USD)	Available Quantity	Downloads
<input type="checkbox"/>	1001	FO Outdoor 1000 mtr	Cable	OS2	Reel	2000	25	
<input type="checkbox"/>	1002	FO Universal 652 D	Cable	OS2	Reel	1500	50	
<input type="checkbox"/>	1003	FO Patch Panel	Patch Panel	OS2	PC	250	60	
<input type="checkbox"/>	1004	SM Adapter	Patch Panel	OS2	PC	150	20	
<input type="checkbox"/>	1005	FO Duplex 01M	Patch Cord	OS2	PC	35	80	
<input type="checkbox"/>	1006	FO Duplex 02M	Patch Cord	OS2	PC	45	75	

Figure 27: Pricelist – Items

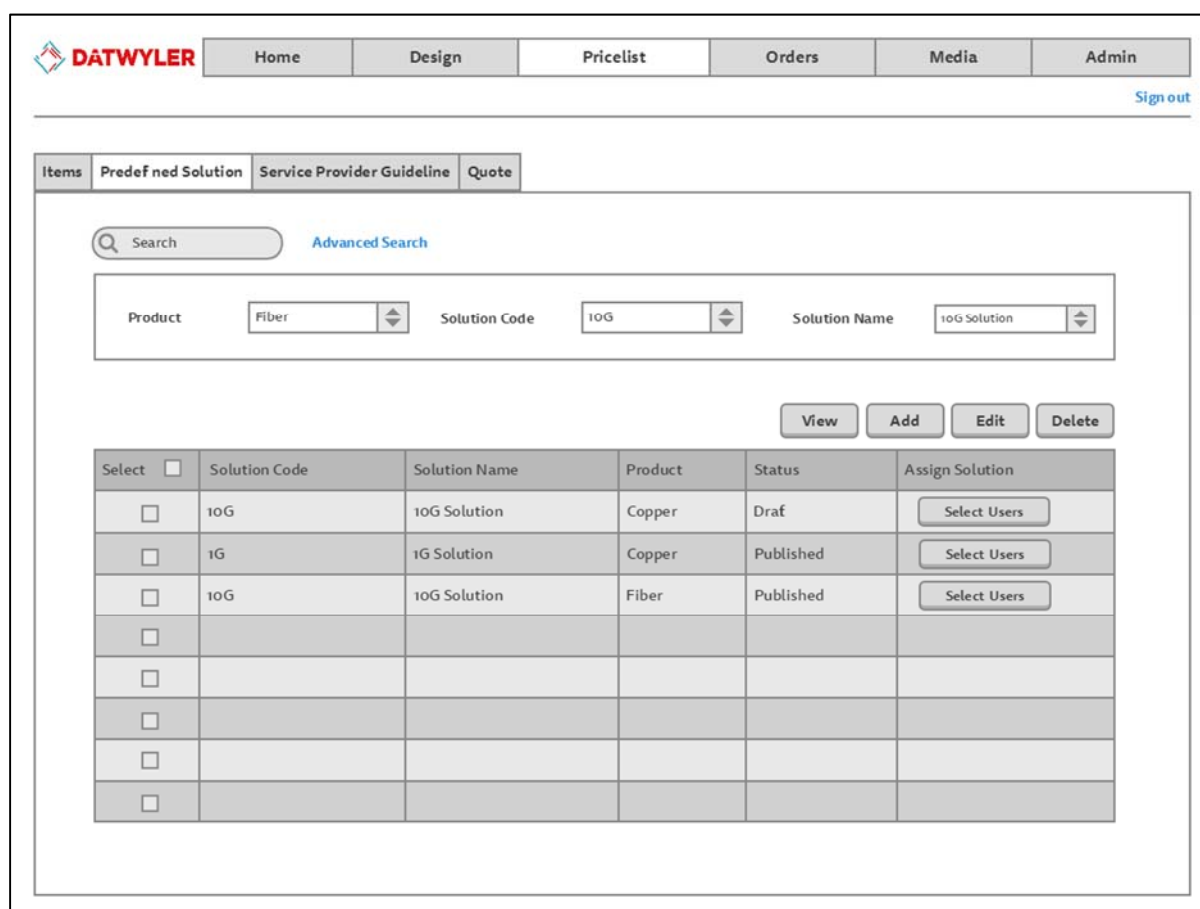
- Country Specific Item pricelist can be viewed from this page
- The Page will have a free text search available, which will search through all fields in the listing grid
- There will be an advanced search option to search items based on a product (Fiber or Copper).
- Based on the selected product and item type, the specifications of the products will be available under filters
  - For Fibre Cable, the below filters will be available
    - Fibre Type
    - No of Fibres
    - Maximum Tensile Load

- Reaction to Fire
- For Fibre Patch Panel, the below filters will be available
  - PP Dimension
  - PP Loaded/Unloaded
  - Connector Type
- For Fibre Patch Cord, the below filters will be available
  - BD – PC Length
  - FD – PC Length
- For Copper Cable, the below filters will be available
  - Bandwidth
  - Shielding
  - Category
  - Cable Sheath
  - Solid/Flexible
- For Copper Patch Panel, the below filters will be available
  - PP Dimension
  - PP Loaded/Unloaded
  - PP Color
- For Copper Faceplate, the below filters will be available
  - Faceplate Type
  - Faceplate Standard
- Based on the search criteria the item listing grid will get filtered and load accordingly
- The Item listing grid will have the below information and information will be fetched from SAP

#	Column Name	Description
1.	Article Number	Unique ID used to identify an item
2.	Item	Shows the Item description
3.	Item Type	Used to categorise an Item to an Item group such as Cables, Patch Panel, Patch cords etc.
4.	Category	Display the category defined for an item

5.	UOM	Display the Unit of Measurement defined for an item
6.	Unit Price	Display the Unit Price of an item
7.	Available Quantity	Shows the quantity of stock available for a particular item at any point of time in a selected plant
8.	Downloads	Will fetch all the downloadable documents linked to an Article Number in SAP like Datasheet, Tender Documents etc.

### 1.5.2 Predefined Solutions



The screenshot shows the Datwyler Design Tool interface. At the top, there is a navigation bar with tabs: Home, Design, Pricelist, Orders, Media, and Admin. A 'Sign out' link is visible on the right. Below the navigation bar, there is a sub-navigation bar with tabs: Items, Predefined Solution (selected), Service Provider Guideline, and Quote. The main content area features a search bar with a 'Search' button and a link to 'Advanced Search'. Below the search bar, there are three dropdown menus for filtering: 'Product' (set to 'Fiber'), 'Solution Code' (set to '10G'), and 'Solution Name' (set to '10G Solution'). To the right of these filters are buttons for 'View', 'Add', 'Edit', and 'Delete'. Below the filters, there is a table listing predefined solutions. The table has columns: Select, Solution Code, Solution Name, Product, Status, and Assign Solution. The table contains three rows of data, each with a 'Select Users' button in the 'Assign Solution' column.

Select	Solution Code	Solution Name	Product	Status	Assign Solution
<input type="checkbox"/>	10G	10G Solution	Copper	Draft	Select Users
<input type="checkbox"/>	1G	1G Solution	Copper	Published	Select Users
<input type="checkbox"/>	10G	10G Solution	Fiber	Published	Select Users
<input type="checkbox"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					

Figure 28: Predefined Solution Listing

- Predefined Solutions can be managed from this page. There will be a listing grid with the below information
  - Solution Code
  - Solution Name
  - Product
- The Page will have option to View, Add, Edit and Delete a Predefined Solution

- The Page will have a free text search available, which will search through all fields in the listing grid
- There will be an advanced search option to search items based on a Product, Solution Code or Solution Name
- Admin users can assign a Predefined Solution to any specific users from this page once created. By default users other than admin users can only view predefined solution created by them .To view any other solution the same has to be assigned to them by admin
- Any user can create a predefined solution by using the **Add** option in the page
- User can edit a predefined solution by clicking the edit button. Same page to create a predefined solution will open, with all the data prepopulated
- On clicking **View**, the products available in the solution will be listed in a pop up

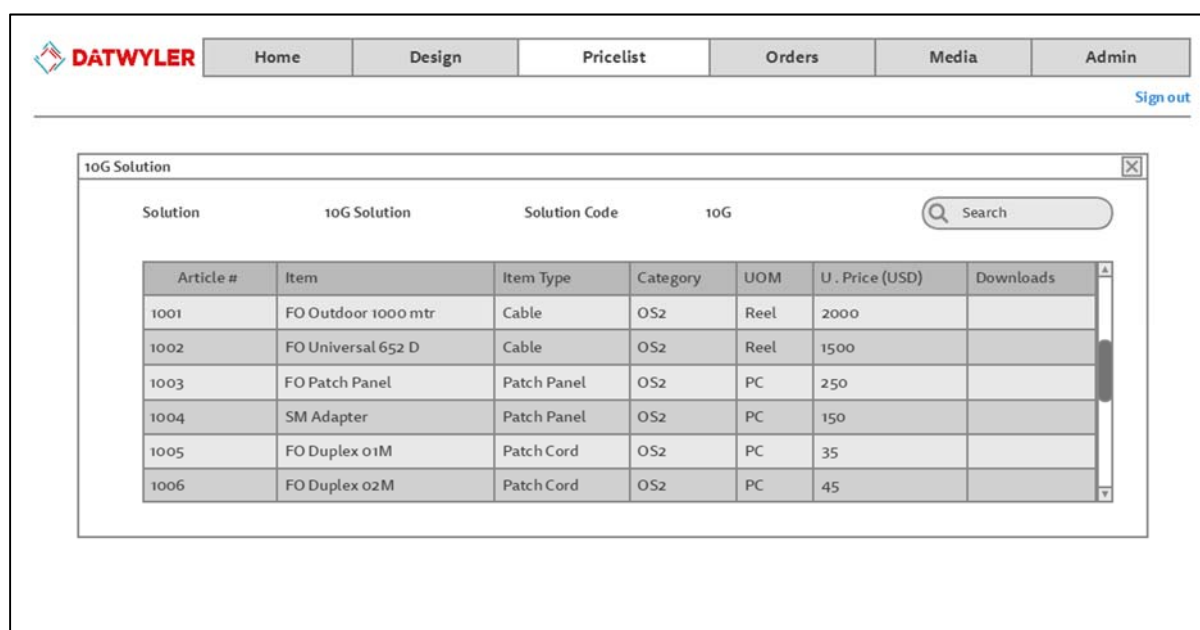



Figure 29: View Products in predefined solution

- Whenever Admin views this page, all the unopened solutions (created by distributors) will be highlighted and displayed at the top.

## CREATE PREDEFINED SOLUTION



Home
Design
Pricelist
Orders
Media
Admin

[Sign out](#)

Items
Predefined Solution
Service Provider Guideline
Quote

### Add Solution

New Solution Code
10G
New Solution Name
10G Shielded

[Advanced Search](#)

Article No.
12345

Product
Fiber

Item Type
Cable

Fiber Type
OS2

No of Fibers
36

Max. Tensile Load
1000

Reaction to Fire
EN13501-6

### Item List

<input type="checkbox"/> Select	Article #	Item	Item Type	Category	UOM	U. Price (USD)	Downloads
<input checked="" type="checkbox"/>	1001	FO Outdoor 1000 mtr	Cable	OS2	Reel	2000	
<input type="checkbox"/>	1002	FO Universal 652 D	Cable	OS2	Reel	1500	
<input type="checkbox"/>	1003	FO Patch Panel	Patch Panel	OS2	PC	250	
<input type="checkbox"/>	1004	SM Adapter	Patch Panel	OS2	PC	150	
<input type="checkbox"/>	1005	FO Duplex 01M	Patch Cord	OS2	PC	35	
<input type="checkbox"/>	1006	FO Duplex 02M	Patch Cord	OS2	PC	45	

Add

### Solution

<input type="checkbox"/> Select	Article #	Item	Item Type	Category	UOM	U. Price (USD)	Downloads
<input checked="" type="checkbox"/>	1001	FO Outdoor 1000 mtr	Cable	OS2	Reel	2000	
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							


Remove

Save as Draft

Publish

Figure 30: Pricelist – Add Predefined Solutions

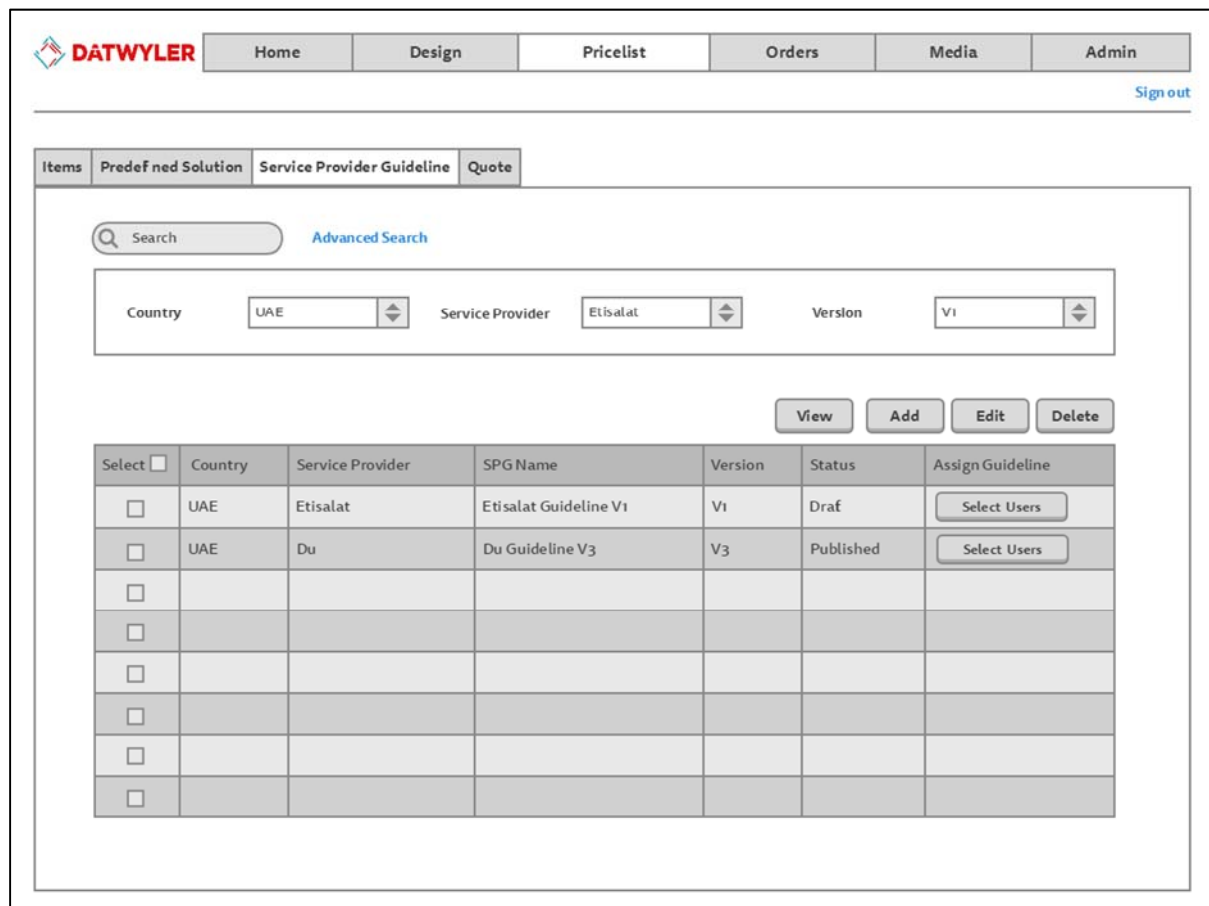
- A New **Solution Code** and **Solution Name** has to be entered to create a New Predefined Solution
- The Page will have two grids for displaying the items. First one will display all the items available in the database. User will be able to filter the items and add required item to the list
- Second grid will display the list of items added to the solution code

	Requirement Specification	<b>Datwyler Design Tool</b> <b>DDT - RSD 1.1</b>
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- User will be able to add item to the solution code by selecting the item and clicking the **Add Item** button
- On clicking the button, the item will be added to the second grid
- There will be a free text search and advanced search option as available in the **Items page**
- The details available in the system will be fetched from SAP
- There will be provision to save the data as draft and publish the solution.
- On clicking **Publish** button, the system should validate if all required items are present in a solution. If not, an alert should be displayed to the user. Required items include
  - Fibre Parts – Cable, Patch Panel and Patch Cords
  - Copper Parts – Cable, Patch Panel, Face Plate
- Published Solutions cannot be modified
- If a solution is created by a distributor, it will be visible to that particular distributor and Admin only



### 1.5.3 Service Provider Guideline

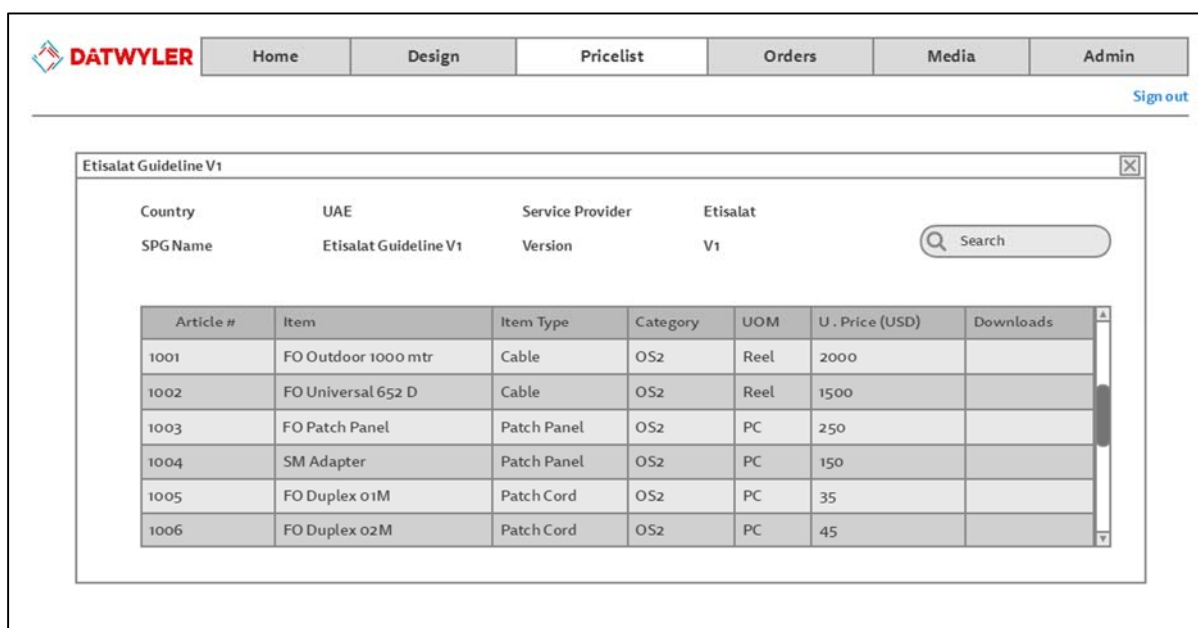


Select	Country	Service Provider	SPG Name	Version	Status	Assign Guideline
<input type="checkbox"/>	UAE	Etisalat	Etisalat Guideline V1	V1	Draft	Select Users
<input type="checkbox"/>	UAE	Du	Du Guideline V3	V3	Published	Select Users
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						

Figure 31: SPG Listing

- Service Provider Guidelines can be managed from this page. There will be a listing grid with the below information
  - Country
  - Service Provider
  - SPG Name
  - Version
- The Page will have option to View, Add, Edit and Delete a Service Provider Guideline
- The Page will have a free text search available, which will search through all fields in the listing grid
- There will be an advanced search option to search items based on a Country, Service Provider or Version

- Admin users can assign a Service Provider Guideline to any specific users from this page once created. By default users other than admin users can only view Service Provider Guideline created by them .To view any other solution the same has to be assigned to them by admin
- Any user can create a Service Provider Guideline by using the **Add** option in the page
- On clicking **View**, the products available in the guideline will be listed in a pop up




The screenshot shows the Datwyler Design Tool interface. At the top, there is a navigation bar with tabs: Home, Design, Pricelist, Orders, Media, and Admin. A 'Sign out' link is visible on the right. Below the navigation bar, a pop-up window titled 'Etisalat Guideline V1' is displayed. Inside the pop-up, there is a table with the following data:

Country	UAE	Service Provider	Etisalat			
SPG Name	Etisalat Guideline V1	Version	V1			
Article #	Item	Item Type	Category	UOM	U . Price (USD)	Downloads
1001	FO Outdoor 1000 mtr	Cable	OS2	Reel	2000	
1002	FO Universal 652 D	Cable	OS2	Reel	1500	
1003	FO Patch Panel	Patch Panel	OS2	PC	250	
1004	SM Adapter	Patch Panel	OS2	PC	150	
1005	FO Duplex 01M	Patch Cord	OS2	PC	35	
1006	FO Duplex 02M	Patch Cord	OS2	PC	45	

**Figure 32: View SPG Products**

- Whenever Admin views this page, all the unopened SPGs (created by distributors) will be highlighted and displayed at the top.

## CREATE SERVICE PROVIDER GUIDELINE



Home
Design
Pricelist
Orders
Media
Admin

[Sign out](#)

Items
Predefined Solution
Service Provider Guideline
Quote

### Add Service Provider Guideline

Country
UAE
Service Provider
Etisalat
New SPG Name
Etisalat Guideline V1
Version
V1

[Advanced Search](#)

Article No.
12345
Product
Fiber
Item Type
Cable

Fiber Type
OS2
No of Fibers
36
Max. Tensile Load
1000
Reaction to Fire
EN13501-6

#### Item List

<input type="checkbox"/> Select	Article #	Item	Item Type	Category	UOM	U. Price (USD)	Downloads
<input checked="" type="checkbox"/>	1001	FO Outdoor 1000 mtr	Cable	OS2	Reel	2000	
<input type="checkbox"/>	1002	FO Universal 652 D	Cable	OS2	Reel	1500	
<input type="checkbox"/>	1003	FO Patch Panel	Patch Panel	OS2	PC	250	
<input type="checkbox"/>	1004	SM Adapter	Patch Panel	OS2	PC	150	
<input type="checkbox"/>	1005	FO Duplex 01M	Patch Cord	OS2	PC	35	
<input type="checkbox"/>	1006	FO Duplex 02M	Patch Cord	OS2	PC	45	

Add

#### Service Provider Guideline

<input type="checkbox"/> Select	Article #	Item	Item Type	Category	UOM	U. Price (USD)	Downloads
<input checked="" type="checkbox"/>	1001	FO Outdoor 1000 mtr	Cable	OS2	Reel	2000	
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							


Remove
Save as Draft
Publish

Figure 33: Create Service Provider Guideline

- User can add a new Service Provider Guideline by selecting the country and service provider.
- User can enter the **Service Provider Guideline Name** and version
- The Page will have two grids for displaying the items. First one will display all the items available in the database. User will be able to filter the items and add required item to the list
- Second grid will display the list of items added to the SPG

- User will be able to add item to the SPG by selecting the item and clicking the **Add Item** button
- On clicking the button, the item will be added to the second grid
- There will be a free text search and advanced search option as available in the **Items Page**
- The Page will by default list all the item details available in the system fetched from SAP
- There will be provision to save the data as draft and publish the SPG.
- On clicking **Publish** button, the system should validate if all required items are present in a SPG.  
If not, an alert should be displayed to the user. Required items include
  - Fibre Parts – Cable, Patch Panel and Patch Cords
  - Copper Parts – Cable, Patch Panel, Face Plate
- Published SPGs cannot be modified
- If a SPG is created by a distributor, it will be visible to that particular distributor and Admin only

#### 1.5.4 Quote



DATWYLER

Home

Design

Pricelist

Orders

Media

Admin

[Sign out](#)

Items

Predefined Solution

Service Provider Guideline

Quote

Search

Advanced Search

Create Quote

#	Quote ID	Customer	Customer Type	Enquiry Date	Status
1	101	ABC	Distributor	11/01/2017	Open
2	102	KLM	Direct	11/02/2017	Closed
3	103	XYZ	Distributor	11/03/2017	Closed
4	104	ABC	Direct	11/04/2017	Open
5	105	KLM	Distributor	11/05/2017	Open
6	106	XYZ	Direct	11/06/2017	Open
7	107	ABC	Distributor	11/07/2017	Closed
8	108	KLM	Direct	11/08/2017	Closed

Previous

1

2

3

Next


Figure 34: Pricelist - Quote Listing

- Users will have a quote list, which will list all the quotes present in the system
- The Quote List can be selected from the Main menu
- There will be a key word search and advanced search. Advanced search will include combined search of Enquiry Date, Customer, Customer Type and Status
- There will be a listing grid with the below information:
  - Quote ID
  - Customer
  - Customer Type
  - Enquiry Date
  - Status

The below table describes the fields related to quote.

#	Column Name	Description
1.	Quote ID	Shows the Identifier for the quote
2.	Customer	Displays the name of the customer
3.	Customer Type	Displayed whether the customer is a “direct” customer or a “partner” of Datwyler
4.	Enquiry Date	Shows the date of enquiry made by the customer
5.	Status	Shows the Status of the quotes <ul style="list-style-type: none"> <li>• <b>Open</b> are the quotes that are in created state</li> <li>• <b>Closed</b> are one which are completed and a <b>Request for Official Quote</b> has been placed</li> </ul>

## CREATE QUOTE



Home
Design
Pricelist
Orders
Media
Admin

[Sign out](#)

Items
Predefined Solution
Service Provider Guideline
Quote

Quote ID: 
Customer Type: 
Customer Name: 
Enquiry Date:

[Advanced Search](#)

Article No.: 
Product: 
Item Type:

Fiber Type: 
No of Fibers: 
Max. Tensile Load: 
Reaction to Fire:

**Item List**

<input type="checkbox"/> Select	Article #	Item	Item Type	Category	UOM	U. Price (USD)	Downloads
<input checked="" type="checkbox"/>	1001	FO Outdoor 1000 mtr	Cable	OS2	Reel	2000	
<input type="checkbox"/>	1002	FO Universal 652 D	Cable	OS2	Reel	1500	
<input type="checkbox"/>	1003	FO Patch Panel	Patch Panel	OS2	PC	250	
<input type="checkbox"/>	1004	SM Adapter	Patch Panel	OS2	PC	150	
<input type="checkbox"/>	1005	FO Duplex 01M	Patch Cord	OS2	PC	35	
<input type="checkbox"/>	1006	FO Duplex 02M	Patch Cord	OS2	PC	45	

Add

**Quote**

<input type="checkbox"/> Select	Article #	Item	Item Type	Category	UOM	U. Price (USD)	Downloads
<input checked="" type="checkbox"/>	1001	FO Outdoor 1000 mtr	Cable	OS2	Reel	2000	
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							

Remove
Save
Cancel
Add to BOQ


Figure 35: Pricelist -Create Quote

- Users can create quote with a list of items, which can be created and managed by users
- The page will include general parameters and a listing grid of items
- General parameters will include Quote ID, which is auto generated, customer type, customer name and enquiry date
- There will be two grids for displaying the items. First one will display all the items available in the database. User will be able to filter the items and add required item to the list

	Requirement Specification	<b>Datwyler Design Tool</b> <b>DDT - RSD 1.1</b>
--	---------------------------	---

- Second grid will display the list of items added to the Quote
- User will be able to add item to the Quote by selecting the item and clicking the **Add Item** button
- On clicking the button, the item will be added to the second grid
- There will be a free text search and advanced search option as available in the **Items Page**
- Based on the search output user can select any specific item from the list and add it to BOQ or save it for adding it later

## BILL OF QUANTITY


Home
Design
Pricelist
Orders
Media
Admin
Sign out

Items
Predefined Solution
Service Provider Guideline
Quote

Quote ID: 
Customer Type: 
Customer Name:

### Bill of Quantity

**Copper**

Special Discount:

Article #	Item	UOM	U. Price (USD)	Discount	Net U.Price	Quantity	T. Price (USD)	Downloads
1001	CAT 6 Cable 500 mtr	Reel	2000	<input type="text" value="10%"/>		<input type="text" value="2"/>	4000	
1002	RJ 45 - Module	Reel	1500	<input type="text" value="10%"/>		<input type="text" value="2"/>	3000	
1003	PPKU	PC	250	<input type="text" value="10%"/>		<input type="text" value="2"/>	500	
1004	LY Angle Faceplate	PC	150	<input type="text" value="10%"/>		<input type="text" value="2"/>	150	
1005	Floor Box Adapter	PC	35	<input type="text" value="10%"/>		<input type="text" value="1"/>	35	

**Fiber**

Article #	Item	UOM	U. Price (USD)	Discount	Net U.Price	Quantity	T. Price (USD)	Downloads
1001	FO Outdoor 1000 mtr	Reel	2000	<input type="text" value="10%"/>		<input type="text" value="2"/>	4000	
1002	FO Universal 652 D	Reel	1500	<input type="text" value="10%"/>		<input type="text" value="2"/>	3000	
1003	FO Patch Panel	PC	250	<input type="text" value="10%"/>		<input type="text" value="2"/>	500	
1004	SM Adapter	PC	150	<input type="text" value="10%"/>		<input type="text" value="2"/>	150	
1005	FO Duplex 01M	PC	35	<input type="text" value="10%"/>		<input type="text" value="1"/>	35	

Grand Total

15370 USD

Total Weight

500.67 (Kg)

Total Volume

800.7 (CBM)

Back
Save
Cancel
Generate Quote

Figure 36: Pricelist - BOQ

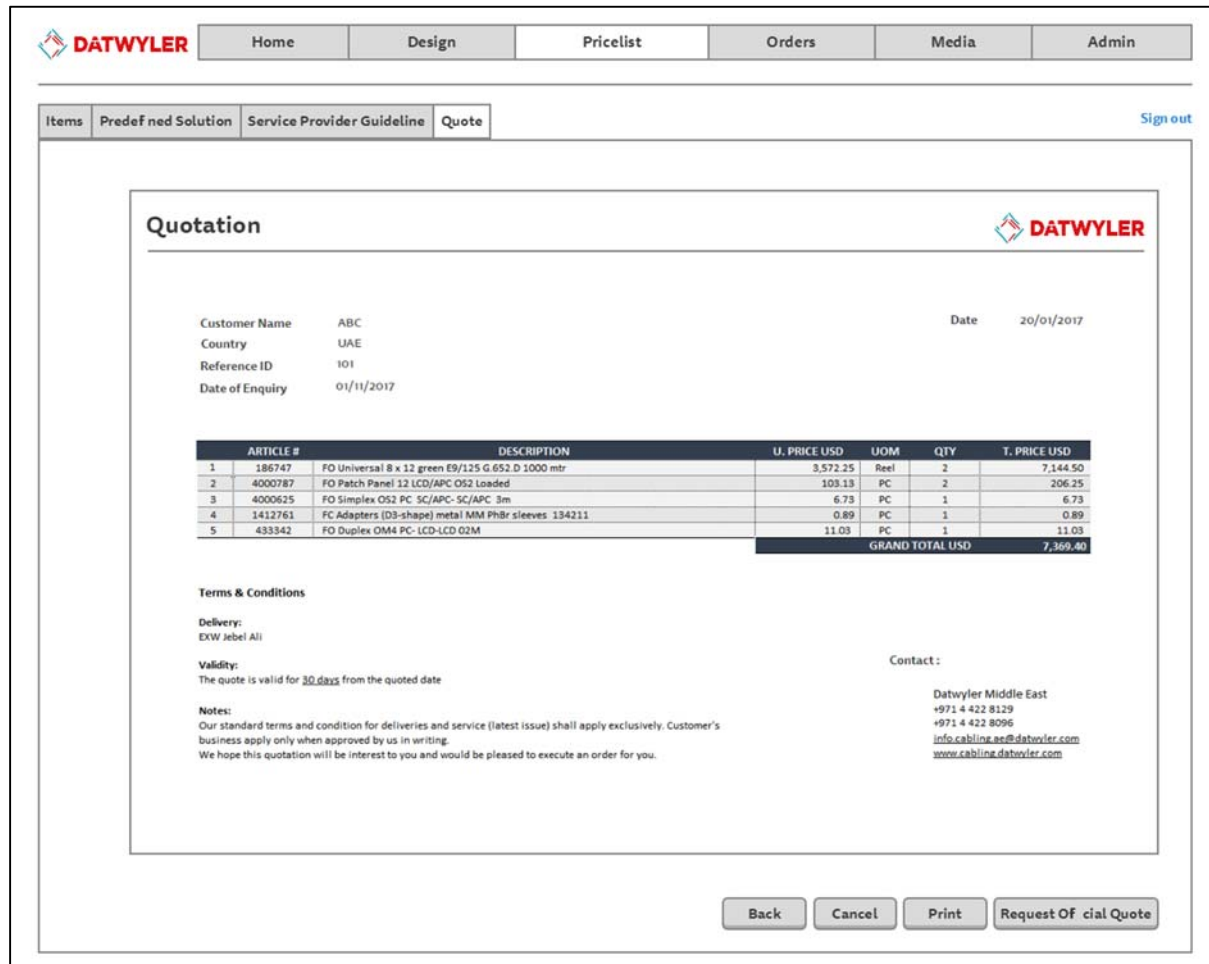
- BOQ will display the summary of all the items present in quote. It will display fiber, copper and other items separately. A listing grid with the below information will be displayed for each category
  - Article #
  - Item
  - UOM
  - Unit Price (USD)
  - Discount
  - Net Unit Price



	Requirement Specification	<b>Datwyler Design Tool</b> <b>DDT - RSD 1.1</b>
---	---------------------------	---

- Quantity
- Total Price
- Downloads
- Users will be able to manage the discount for each items in the grid
- There will be provision to provide a special discount, which will be an add-on discount, applied to all items in the BOQ
- User will be able to enter the quantity required for each item
- Total price will be calculated per item by multiplying quantity with Net Unit Price
- Grand Total, Total Weight and Total Volume will be displayed at the bottom
- Grand total is the total price of all the items present in BOQ
- Total weight of all items will be calculated and will be displayed at the bottom in kg
- Total volume all items will be calculated and will be displayed at the bottom in CBM
- There will be provision to download the relevant documents for each item
- On clicking **Download**, a pop up will appear, which will list the documents available for the item. User can choose the document and download the file

## GENERATE QUOTATION



**DATWYLER** Home Design Pricelist Orders Media Admin

Items Predefined Solution Service Provider Guideline Quote [Sign out](#)

### Quotation

Customer Name: ABC Date: 20/01/2017  
Country: UAE  
Reference ID: 101  
Date of Enquiry: 01/11/2017

ARTICLE #	DESCRIPTION	U. PRICE USD	UOM	QTY	T. PRICE USD
1	FO Universal 8 x 12 green E9/125 G.652 D 1000 mtr	3,572.25	Reel	2	7,144.50
2	FO Patch Panel 12 LCD/APC OS2 Loaded	103.13	PC	2	206.25
3	FO Simplex OS2 PC SC/APC-SC/APC 3m	6.73	PC	1	6.73
4	FC Adapters (D3-shape) metal MM PH8r sleeves 194211	0.89	PC	1	0.89
5	FO Duplex OM4 PC-LCD-LCD 02M	11.03	PC	1	11.03
<b>GRAND TOTAL USD</b>					<b>7,369.40</b>

**Terms & Conditions**

**Delivery:**  
EXW Jebel Ali

**Validity:**  
The quote is valid for 30 days from the quoted date

**Notes:**  
Our standard terms and condition for deliveries and service (latest issue) shall apply exclusively. Customer's business apply only when approved by us in writing.  
We hope this quotation will be interest to you and would be pleased to execute an order for you.

**Contact:**  
Datwyler Middle East  
+971 4 422 8129  
+971 4 422 8096  
[info.cabling.ae@datwyler.com](mailto:info.cabling.ae@datwyler.com)  
[www.cabling.datwyler.com](http://www.cabling.datwyler.com)

Back Cancel Print Request Official Quote

Figure 37: Pricelist - View Quote

- Users will be able to **Generate Quote** for the items present in BOQ. On clicking **Generate Quote**, all the items in the BOQ will be listed in the quote, without any categorization
- A listing grid with the below information will be displayed
  - Article #
  - Description
  - Unit Price (USD)
  - UOM
  - Quantity
  - Total Price (USD)
- The quote will also include the Customer Name, Country, Reference ID and Date of Enquiry

- It will also include the Terms and Conditions and Contact details of the Partner
- There will be provisions to print the quotation and request official quotation
- On clicking **Print**, the system will generate a print of the quote
- There will be provision to generate excel and word output
- On clicking **Request Official Quote**, a mail will be sent to the respective team to generate quote. It will include the quote details created so far

## 1.6 Media

### 1.6.1 Events

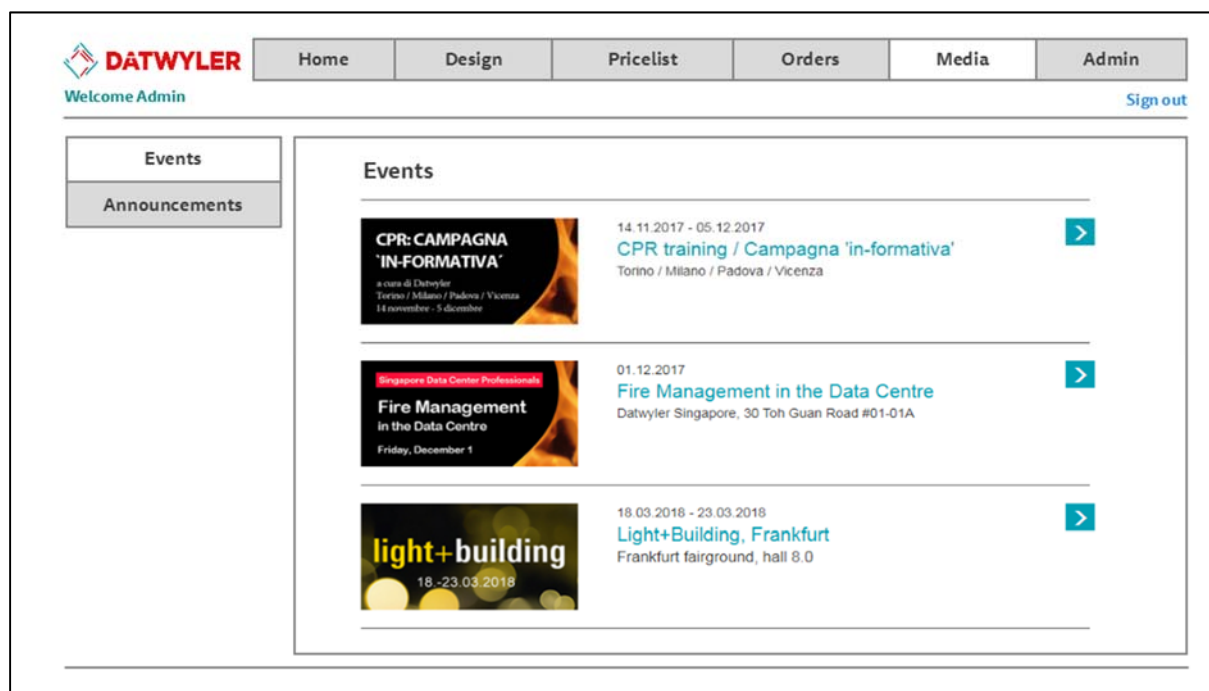


Figure 38: Media – Events

- User can view the listing of all the events posted by the Admin through the system and the ones posted in datwyler website from this page
- By clicking on each listed event, user will be navigated to the event details page

## 1.6.2 Announcements

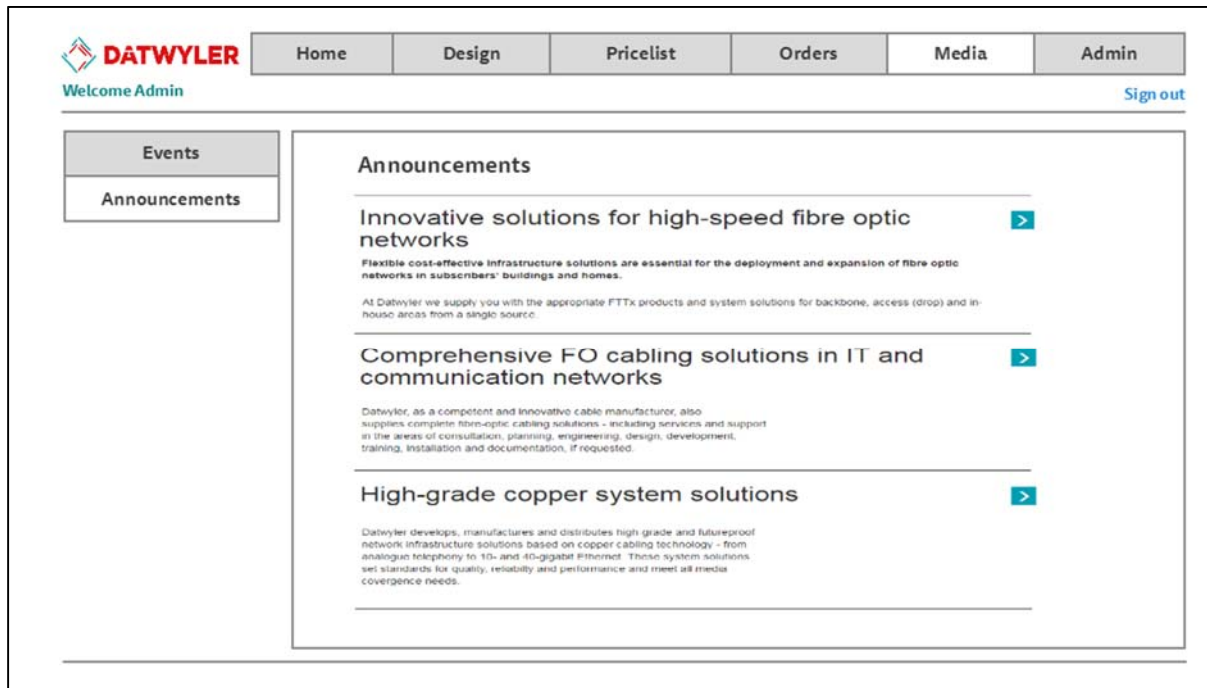


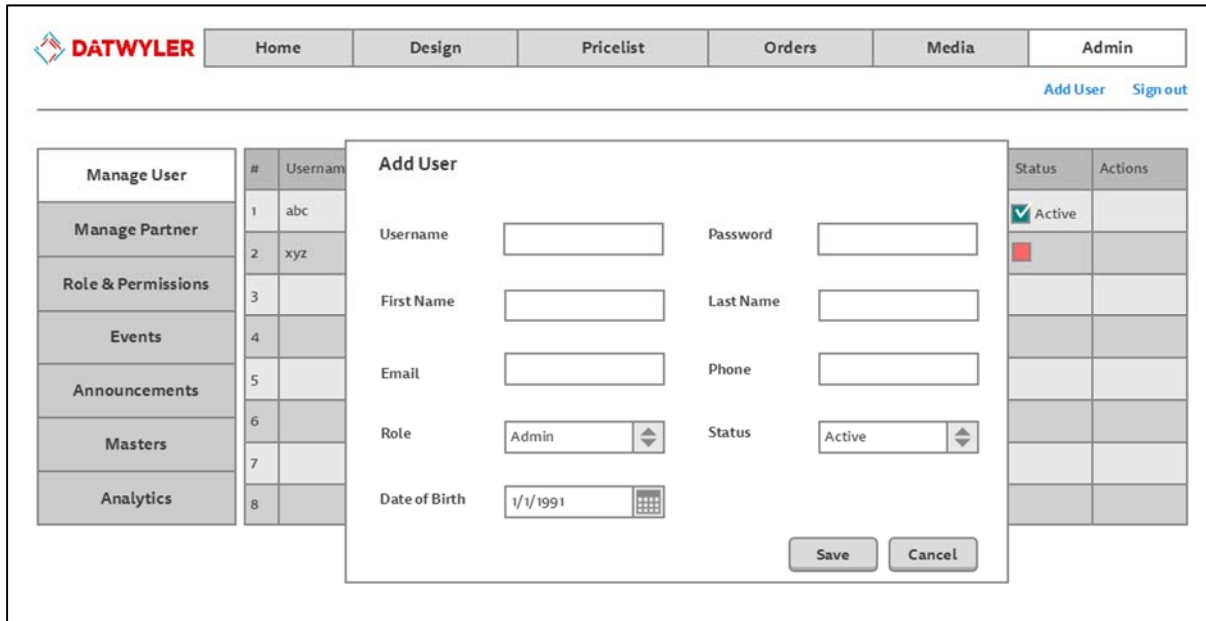
Figure 39: Media – Announcements

- User can view the listing of all the announcements posted by the Admin from this page
- By clicking on each listed announcement, user will be navigated to the announcement details page

## 1.7 Admin

### 1.7.1 User Management *(For Users Internal to the Organization)*

Users: Admin



The screenshot shows the Datwyler Design Tool Admin interface. At the top, there is a navigation bar with the Datwyler logo and tabs for Home, Design, Pricelist, Orders, Media, and Admin. Below the tabs, there are links for 'Add User' and 'Sign out'. On the left side, there is a sidebar menu with options: Manage User, Manage Partner, Role & Permissions, Events, Announcements, Masters, and Analytics. The main content area displays a table of users with columns for #, Username, Status, and Actions. An 'Add User' modal form is open in the center, containing fields for Username, Password, First Name, Last Name, Email, Phone, Role (set to Admin), Status (set to Active), and Date of Birth (set to 1/1/1991). The modal has 'Save' and 'Cancel' buttons at the bottom.

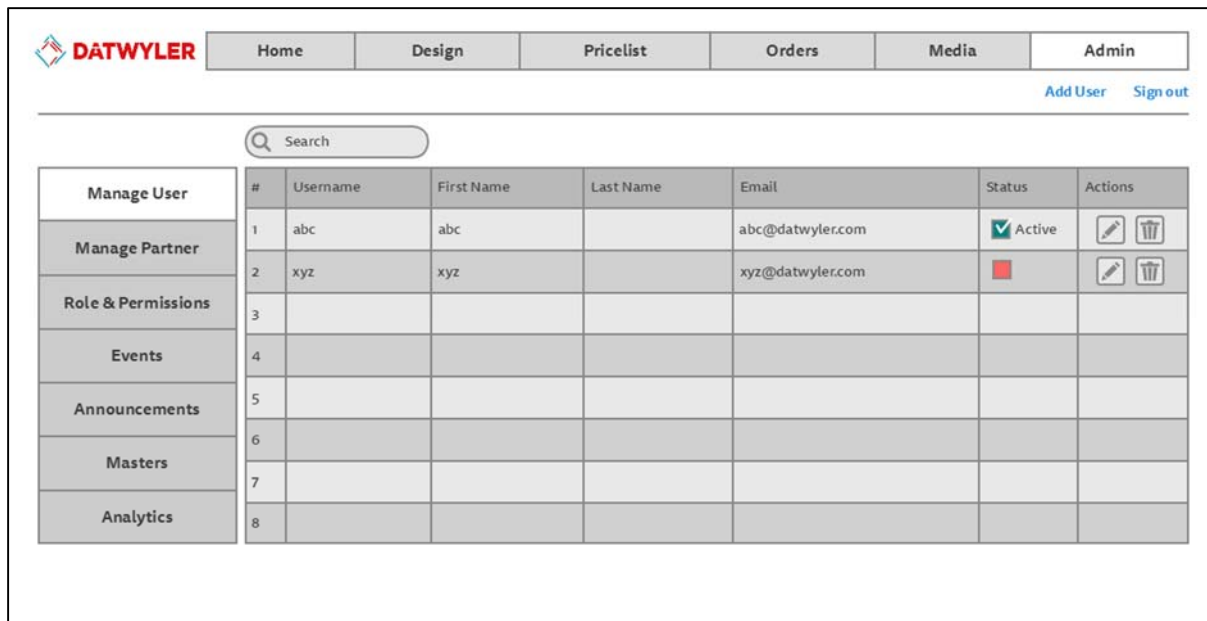
#	Username	Status	Actions
1	abc	Active	
2	xyz		
3			
4			
5			
6			
7			
8			

Figure 40: Add User

Admin will be able to register users internal to the organization by using the **Add User** option. Admin will fill the below basic details of users to register them

#	Field Name	Mandatory (Y/N)	Description
1.	Username	Y	Used for capturing a Username for User login
2.	Password	Y	Used for capturing a Password for User login. Password will have the below validations: <ul style="list-style-type: none"> <li>8 characters minimum</li> <li>has a special character</li> </ul>
3.	First Name	Y	
4.	Last Name	Y	
1.	Email	Y	Will be used as the registered email id. Characters Included while creating email id will be only [@], period [.), and underscore [_]
5.	Phone (Mobile Number)	Y	<ul style="list-style-type: none"> <li>Will be an Only Numerical entry field</li> <li>No alphabetic or other characters</li> <li>3 digits minimum</li> <li>Country codes will be captured</li> </ul>
6.	Role	Y	This option will define the system access permissions for the user. This will be a drop down
7.	Status	Y	Helps to activate or deactivate a user for using the system. This will be a drop down
8.	Date of Birth	Y	Captured the date of birth of the user

The system will always validate the username and password as user login credentials



**Figure 41: Manage User**

- There will be a listing screen to list the Users created. Already created users details will be managed (Activate/Deactivate Status, Edit and Delete) from this screen
- There will be a free text search available, which will search through all fields in the listing grid

## 1.7.2 Partner Management (For Users External to the Organization)

Users: Admin

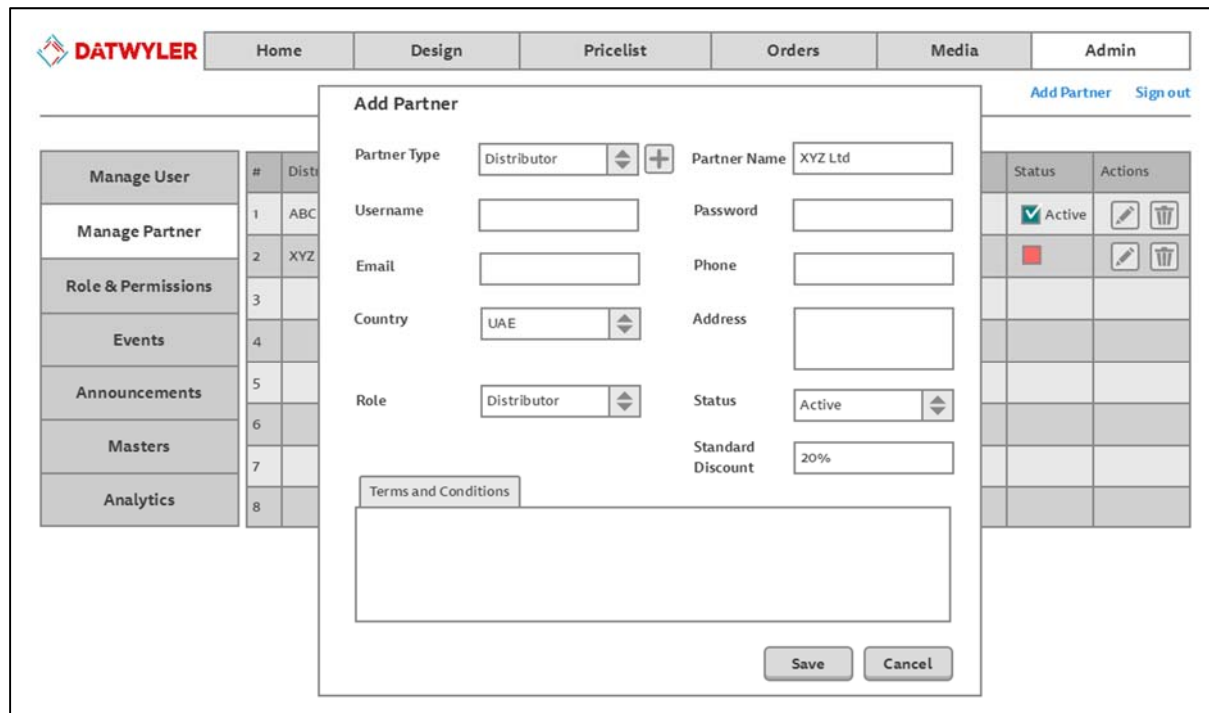


Figure 42: Add Partner

Admin will be able to register Partners external to the organization by using the **Add Partner** option.


Admin will fill the below basic details of the partner to register them

#	Field Name	Mandatory (Y/N)	Description
1.	Partner Type	Y	This will be a drop down to select the partner type like distributor, consultant etc. There will be provision to add new partner type by clicking the add button. It will open as a popup in which user can add new partner type
2.	Partner Name	Y	Capture the Partner Name
3.	Username	Y	Used for capturing a Username for User login







4.	Password	Y	Used for capturing a Password for User login. Password will have the below validations: <ul style="list-style-type: none"> <li>8 characters minimum</li> <li>has a special character</li> </ul>
5.	Email	Y	Will be used as the registered email id. Characters Included while creating email id will be only [@], period [.] , and underscore [ _ ]
6.	Phone (Mobile Number)	Y	<ul style="list-style-type: none"> <li>Will be an Only Numerical entry field</li> <li>No alphabetic or other characters</li> <li>3 digits minimum</li> <li>Country codes will be captured</li> </ul>
7.	Country	Y	This will be a dropdown to select the country
8.	Address	N	User can enter the address in this field as a free text
9.	Role	Y	Role will define the system access permissions for the partner. This will be a drop down
10.	Status	Y	Helps to activate or deactivate a partner for using the system. This will be a drop down
11.	Standard Discount	Y	Used for capturing standard discount percentage for the selected partner. Applies a Flat discount over any items purchased by the partner from Datwyler
12.	Terms & Conditions	Y	Will be added to all the quotes raised by the partner by default

The system will always validate the username and password as partner login credentials


**DATWYLER**

[Home](#)
[Design](#)
[Pricelist](#)
[Orders](#)
[Media](#)
[Admin](#)

[Add Partner](#)
[Sign out](#)

Manage User	#	Partner Type	Partner Name	Username	Standard Discount	Status	Actions
Manage Partner	1	Distributor	ABC Ltd	abc	20%	<input checked="" type="checkbox"/> Active	 
	2	Distributor	XYZ Ltd	xyz	10%	<input type="checkbox"/>	 
Role & Permissions	3						
Events	4						
Announcements	5						
Masters	6						
	7						
Analytics	8						

### Figure 43: Manage Partner

- There will be a listing screen to list the partners created. Already created partners details will be managed (Activate/Deactivate Status, Edit and Delete) from this screen
- There will be a free text search available, which will search through all fields in the listing grid

### 1.7.3 Roles and Permissions

Users: Admin

Admin will be able to add different user roles in the application and set access permission for them from this page.



Page	Permissions
Home	<input checked="" type="checkbox"/> View <input checked="" type="checkbox"/> Add <input checked="" type="checkbox"/> Edit <input type="checkbox"/> Delete <input type="checkbox"/> All
Design	<input checked="" type="checkbox"/> View <input checked="" type="checkbox"/> Add <input checked="" type="checkbox"/> Edit <input type="checkbox"/> Delete <input type="checkbox"/> All
Maps	<input checked="" type="checkbox"/> View <input type="checkbox"/> Add <input type="checkbox"/> Edit <input type="checkbox"/> Delete <input type="checkbox"/> All
Order	<input checked="" type="checkbox"/> View <input checked="" type="checkbox"/> Add <input checked="" type="checkbox"/> Edit <input type="checkbox"/> Delete <input type="checkbox"/> All

Figure 44: Roles & Permissions

While adding roles, admin will be able to assign the page wise permissions (View, Add, Edit, and Delete) for that role. Application feature accessibility will be decided based on the permissions set for a role.

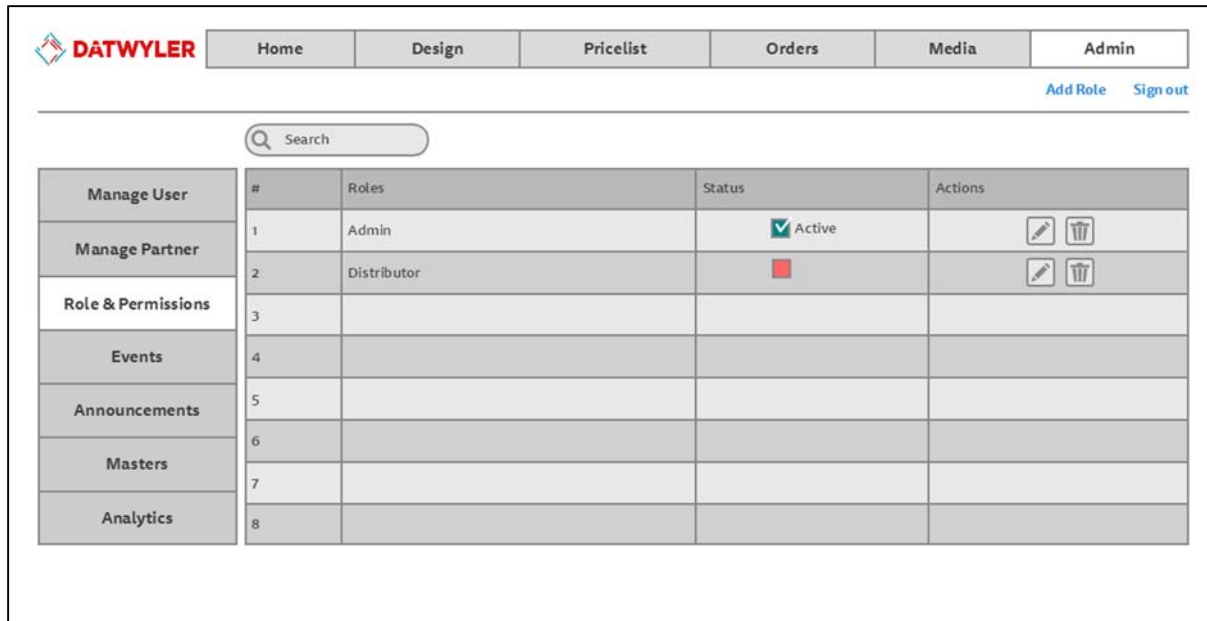


Figure 45: Manage Roles & Permissions

There will be a listing page for all roles. These roles will get listed while adding roles. Already created Role details will be managed (Activate/Deactivate, Edit and Delete) from this screen.

There will be a free text search available, which will search through all fields in the listing grid.





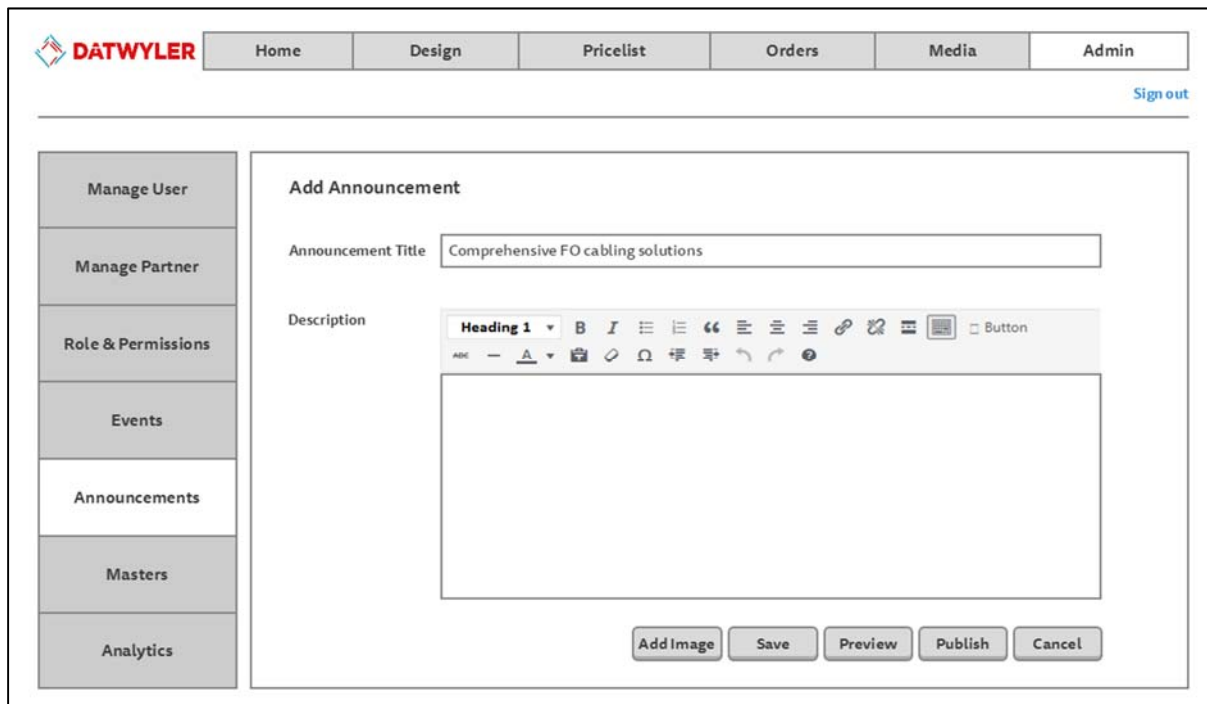


Figure 49: Add Announcement

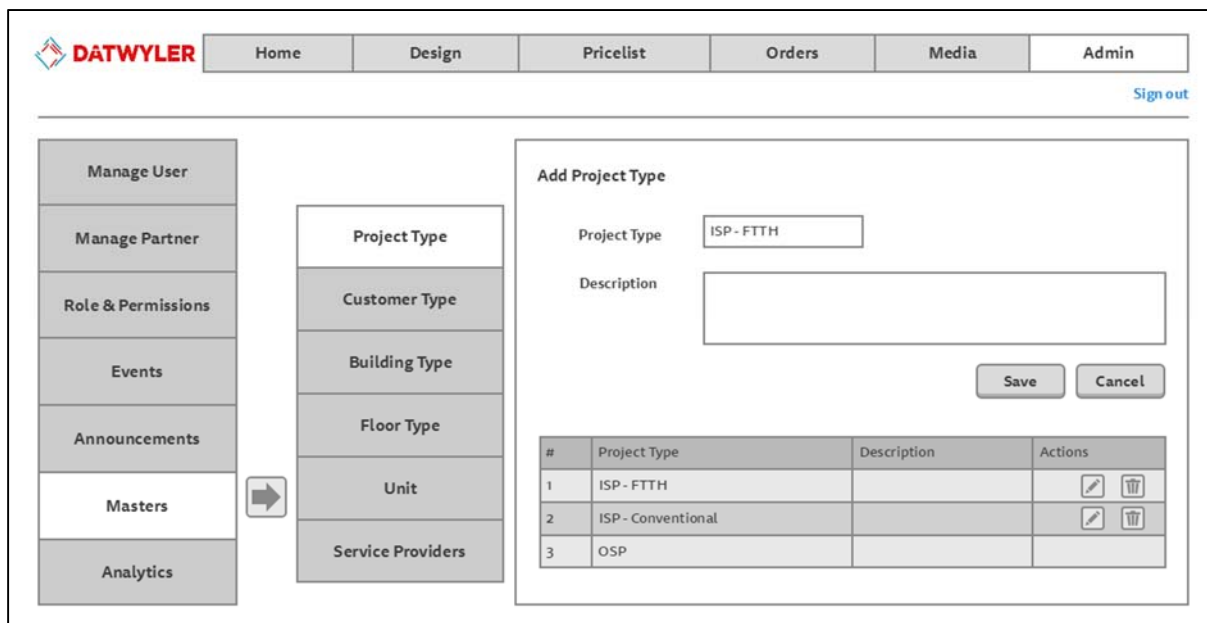
- The “Add Announcement” page will have an option to add the Announcement Title, Description and any Supporting Images
- The Description section will have a Text Editor to edit/style any description text
- There will be a preview option for the newly added announcements
- The details captured can be saved and the same will be listed and viewed from the Admin → Announcements section in the application with status as “Deactivated”
- The details captured can be published and the same will be listed and viewed from:
  - Media → Announcements page in the application
  - Admin → Announcements page in the application with status as “active”

### 1.7.6 Masters

Users: Admin

Masters page will have option to create master data for Project Type, Customer Type, Building Type, Floor Type, Unit and Service Provider to be used in required modules/pages of the application.

#### 1.7.6.1 Project Type



The screenshot shows the Datwyler Design Tool interface. The top navigation bar includes Home, Design, Pricelist, Orders, Media, and Admin. The left sidebar contains links for Manage User, Manage Partner, Role & Permissions, Events, Announcements, Masters (highlighted), and Analytics. The main content area is titled 'Add Project Type' and contains a form with fields for 'Project Type' (with the value 'ISP - FTTH') and 'Description'. Below the form are 'Save' and 'Cancel' buttons. A table below the form lists existing project types:





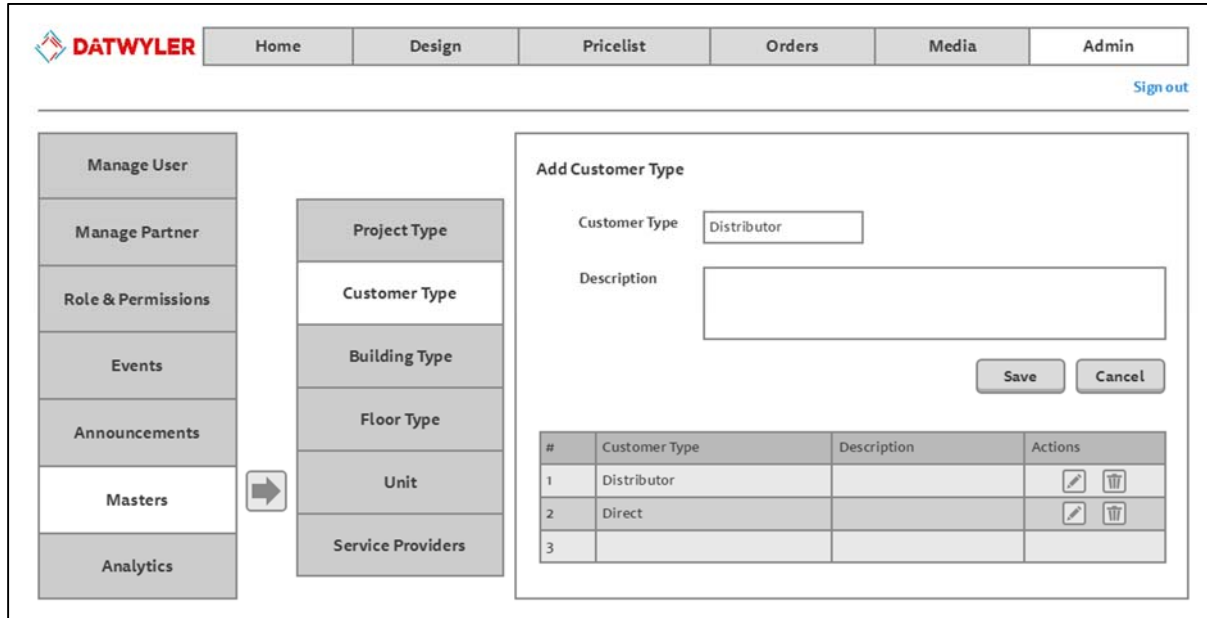
#	Project Type	Description	Actions
1	ISP - FTTH		 
2	ISP - Conventional		 
3	OSP		

Figure 50: Master – Project Type

- There will be an option to capture the Type of the project (whether it is an ISP or OSP) using the “Project Type” field.
- Any Description related to the project type can be captured using the “Description” field.
- The captured information can be saved and will be listed in the listing grid
- Any saved information can be further managed from the listing grid with an option to “Edit” or “Delete” the same



### 1.7.6.2 Customer Type



The screenshot shows the Datwyler Design Tool interface. The top navigation bar includes links for Home, Design, Pricelist, Orders, Media, and Admin, along with a Sign out button. The left sidebar contains a menu with options: Manage User, Manage Partner, Role & Permissions, Events, Announcements, Masters (highlighted), and Analytics. A sub-menu for Masters is visible, listing Project Type, Customer Type (selected), Building Type, Floor Type, Unit, and Service Providers. The main content area displays the 'Add Customer Type' form, which includes a 'Customer Type' field (containing 'Distributor') and a 'Description' field. Below the form are 'Save' and 'Cancel' buttons. A listing grid at the bottom shows existing customer types:





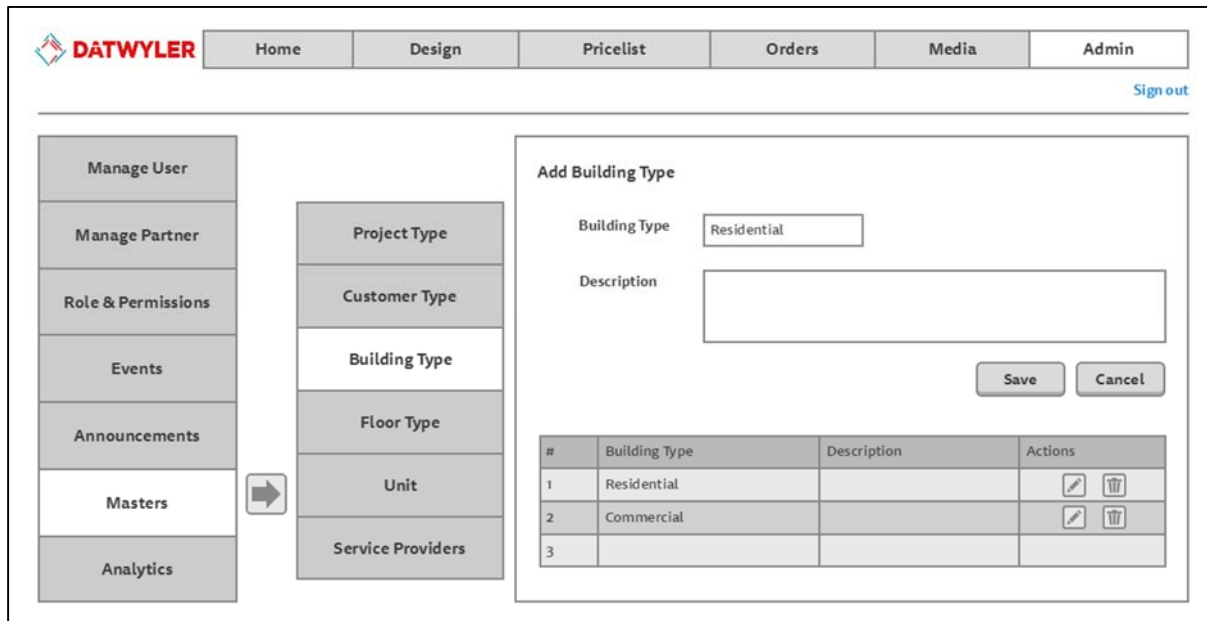
#	Customer Type	Description	Actions
1	Distributor		 
2	Direct		 
3			

Figure 51: Master – Customer Type

- There will be an option to capture the Type of customer using the “Customer Type” field.
- Any Description related to the customer type can be captured using the “Description” field.
- The captured information can be saved and will be listed in the listing grid
- Any saved information can be further managed from the listing grid with an option to “Edit” or “Delete” the same

### 1.7.6.3 Building Type



The screenshot shows the Datwyler Design Tool interface. The top navigation bar includes links for Home, Design, Pricelist, Orders, Media, and Admin, along with a Sign out button. The left sidebar contains a menu with options: Manage User, Manage Partner, Role & Permissions, Events, Announcements, Masters (highlighted), and Analytics. A central column lists categories: Project Type, Customer Type, Building Type (highlighted), Floor Type, Unit, and Service Providers. The main content area displays the 'Add Building Type' form, which includes a 'Building Type' dropdown menu (set to 'Residential') and a 'Description' text area. Below the form are 'Save' and 'Cancel' buttons. At the bottom, a listing grid shows existing building types:





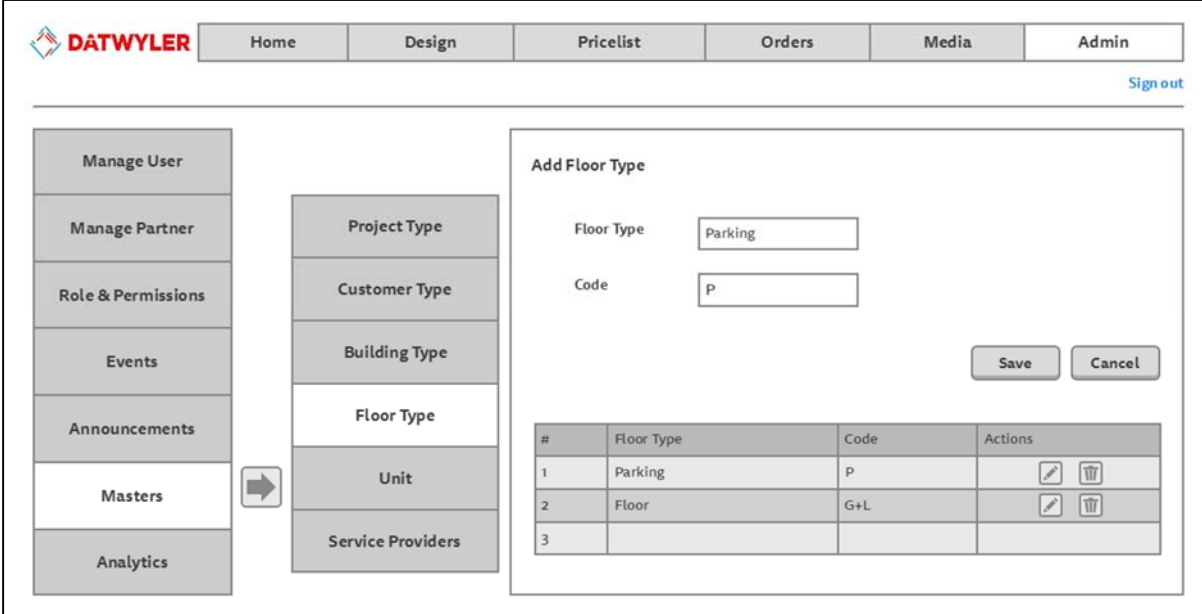
#	Building Type	Description	Actions
1	Residential		 
2	Commercial		 
3			

Figure 52: Master – Building Type

- There will be an option to capture the Type of building using the “Building Type” field.
- Any Description related to the building type can be captured using the “Description” field.
- The captured information can be saved and will be listed in the listing grid
- Any saved information can be further managed from the listing grid with an option to “Edit” or “Delete” the same

#### 1.7.6.4 Floor Type



The screenshot shows the Datwyler Design Tool interface. The top navigation bar includes links for Home, Design, Pricelist, Orders, Media, and Admin, along with a Sign out button. The left sidebar contains a menu with options: Manage User, Manage Partner, Role & Permissions, Events, Announcements, Masters (highlighted), and Analytics. A central column lists master data categories: Project Type, Customer Type, Building Type, Floor Type (highlighted), Unit, and Service Providers. The main content area displays the 'Add Floor Type' form, which includes input fields for 'Floor Type' (containing 'Parking') and 'Code' (containing 'P'), and 'Save' and 'Cancel' buttons. Below the form is a listing grid showing existing floor types.





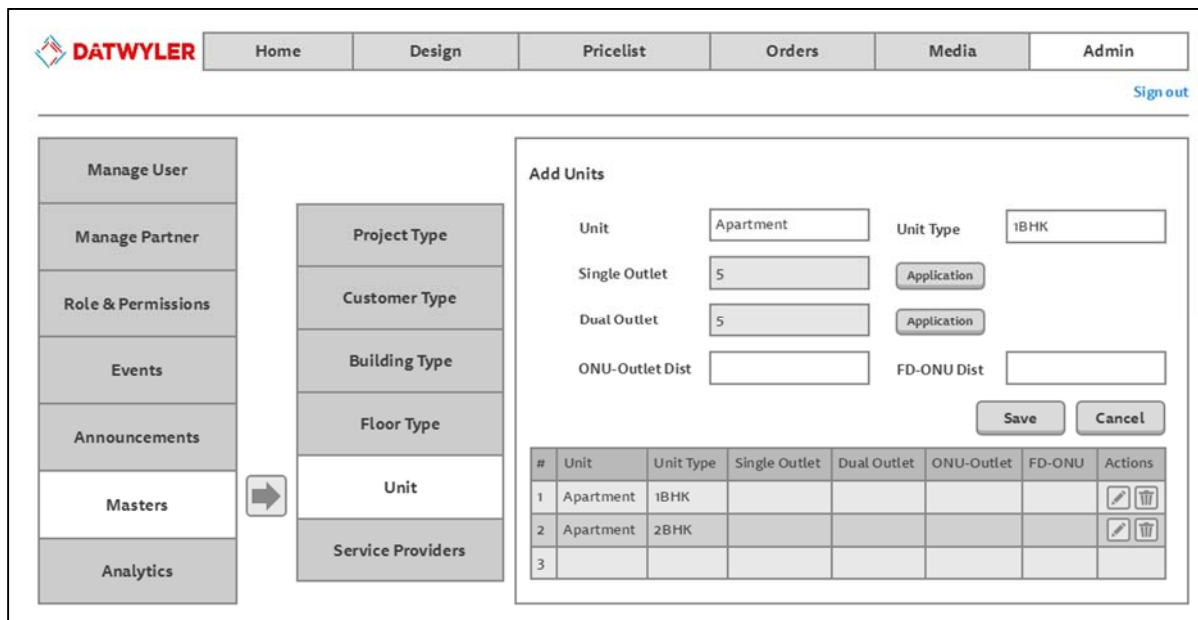
#	Floor Type	Code	Actions
1	Parking	P	 
2	Floor	G+L	 
3			

Figure 53: Master – Floor Type

- There will be an option to capture the Type of Floor (Like Basement, Parking etc.) using the “Floor Type” field
- There will be an option to capture a “Code” to be used for the Floor Type
- The captured information can be saved and will be listed in the listing grid
- Any saved information can be further managed from the listing grid with an option to “Edit” or “Delete” the same

#### 1.7.6.5 Unit







#	Unit	Unit Type	Single Outlet	Dual Outlet	ONU-Outlet	FD-ONU	Actions
1	Apartment	1BHK					 
2	Apartment	2BHK					 
3							

Figure 54: Master – Unit

- There will be an option to capture the Unit (Like Apartment, Shop etc.) using the “Unit” field
- Based on the Unit, there will be fields to capture the “Unit Type” (Like 1BHK, 2BHK for Apartments or 1Room, 2 Room for Shops etc.), No of Single Outlet, No of Dual Outlet, ONU – Outlet distance(in meters) and FD – Outlet distance (in meters) against the same
- Users will be able to specify the number of outlets with respect to the outlet type that are used
- No. of Single Outlet and No. of Dual Outlet will be captured through a pop up. On clicking **Application** button near to Single/Dual Outlet, users will be able to manage the number of outlets against each outlet. There will be provision to add/remove outlet types in the pop up
- The captured information can be saved and will be listed in the listing grid
- Any saved information can be further managed from the listing grid with an option to “Edit” or “Delete” the same

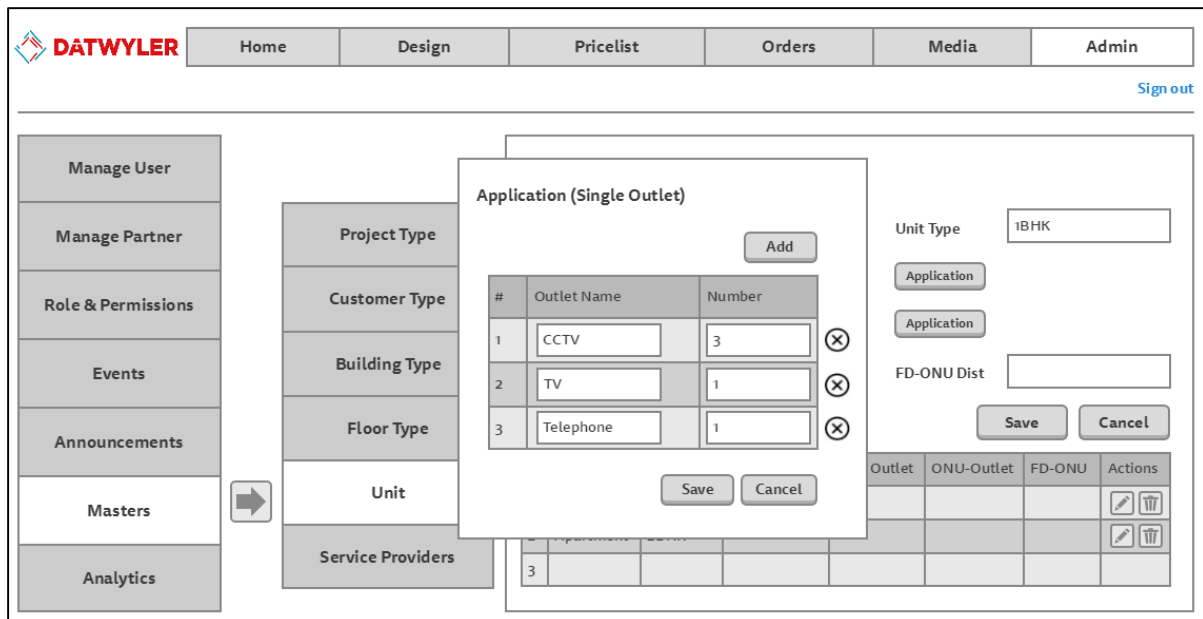


Figure 55: Masters – Unit Application

### 1.7.6.6 Service Providers

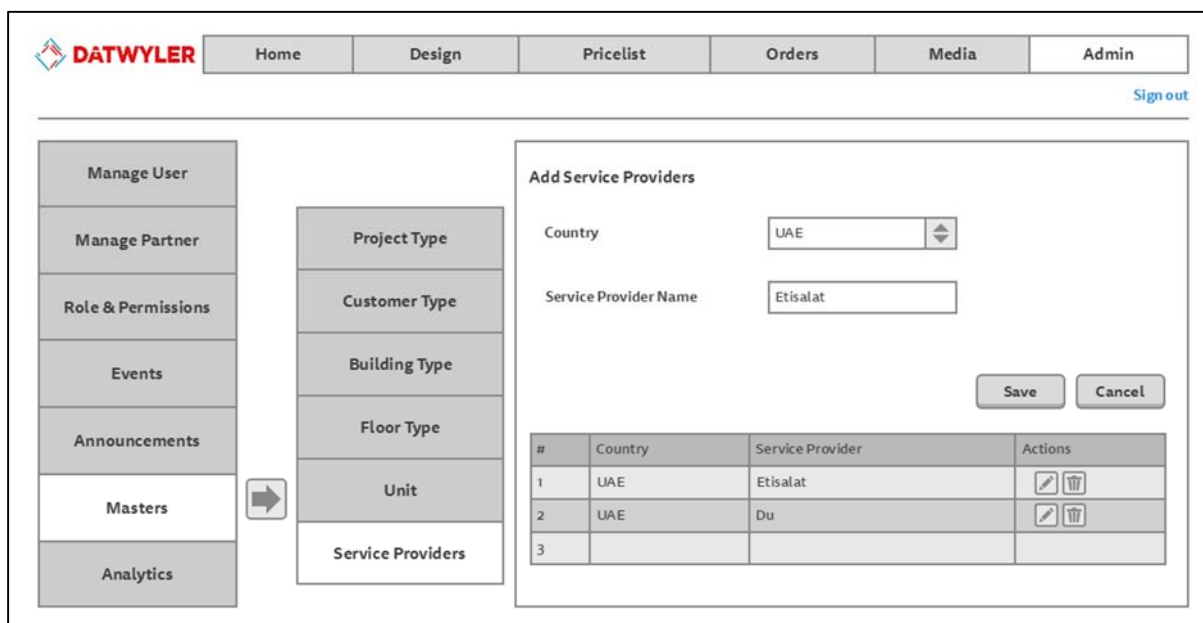


Figure 56: Masters – Service Providers

- There will be an option to capture the Service Providers (Like Etisalat, Du etc.) using the “Service Provider” field
- While adding service provider, user will have the provision to choose the country. The created service provider will be mapped to that country
- The captured information can be saved and will be listed in the listing grid

- Any saved information can be further managed from the listing grid with an option to “Edit” or “Delete” the same

## 1.8 Analytics

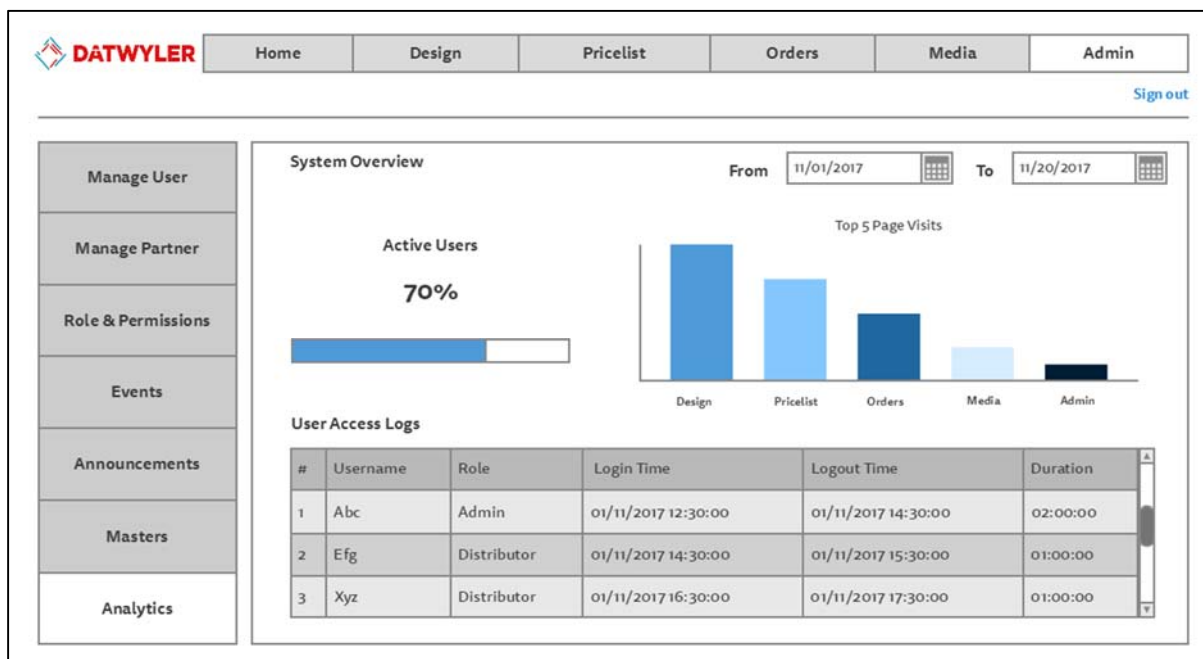



Figure 57: Admin – Analytics

Users will have a page to analyze the web traffic and user activity in the web site over a period of time. This will help the users to optimize the web pages accordingly.

It will include the following contents:

- Active Users (measured in percentage)
- Top five page visits – will display the top five pages with maximum visits from users. It will be represented as a graph
- User Access Logs – It will be a listing grid with the user activity logs. The grid will have the following information
  - Username
  - Role
  - Login Time
  - Logout Time
  - Duration

	Requirement Specification	<b>Datwyler Design Tool</b> <b>DDT - RSD 1.1</b>
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## 5 Conclusion

In the above sections, we have discussed the requirements as understood by the project team for the realization of the project. This will provide a preliminary input for study and implementation of the system.

	Requirement Specification	<b>Datwyler Design Tool</b> <b>DDT - RSD 1.1</b>
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## Annexure 1 Submission Documents

The bidder is expected to submit the below documents in their reply:

- Technical Reply
  - Company profile
  - Company license
  - List of references with web links
  - List of references contact details
  - List of available resources with relevant experience
  - Write up describing the proposed approach
  - Time line plan to complete the project including after release support
  - Sample user friendly GUI
- Commercial
  - Commercial proposal
  - Detailed Scope of works



**Annexure 2**  
**Evaluation Criteria**

The Submissions will be evaluated based on the below criteria

#	Criteria	Value
1	User friendly GUI and easy interface	40%
2	Commercial Value	30%
3	Company profile and experience	10%
4	Time line and after project support	10%
5	Feedback from provided references	10%

	Requirement Specification	<b>Datwyler Design Tool</b> <b>DDT - RSD 1.1</b>
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### Annexure 3 Project time line

Datwyler is expecting to have the first version of the web application running by Q3 of 2018. Each company has to provide their time line with this in mind.