

New Features from the Exploratories for BEXIS2



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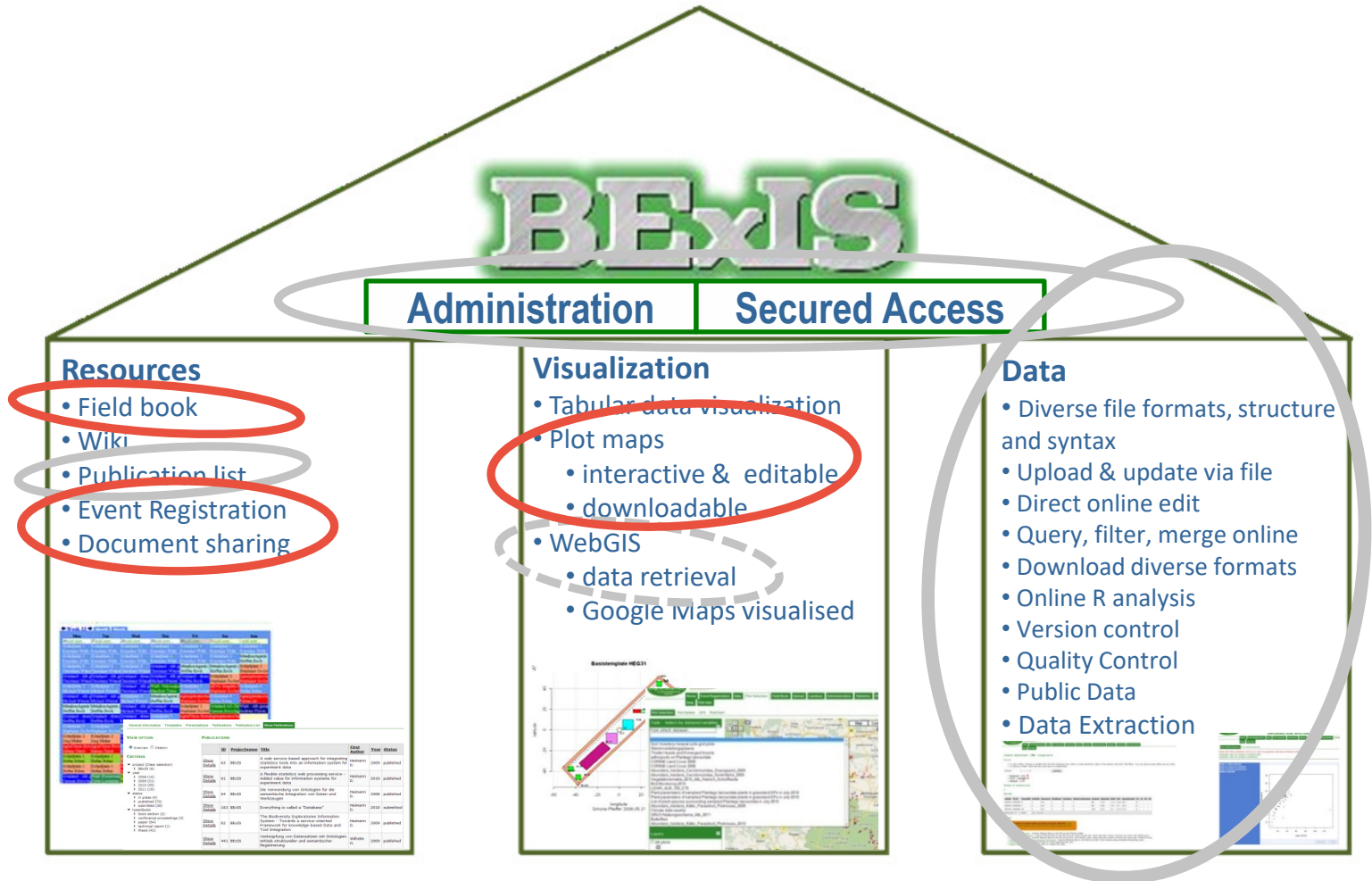
* Left recently, ** Parental leave, *** PhD, **** Parental leave replacement

Friedrich Schiller University, Jena



seit 1558

BEXIS2 develops (data oriented) core functionalities and covers  .
 We re-develop must-have functionalities  .



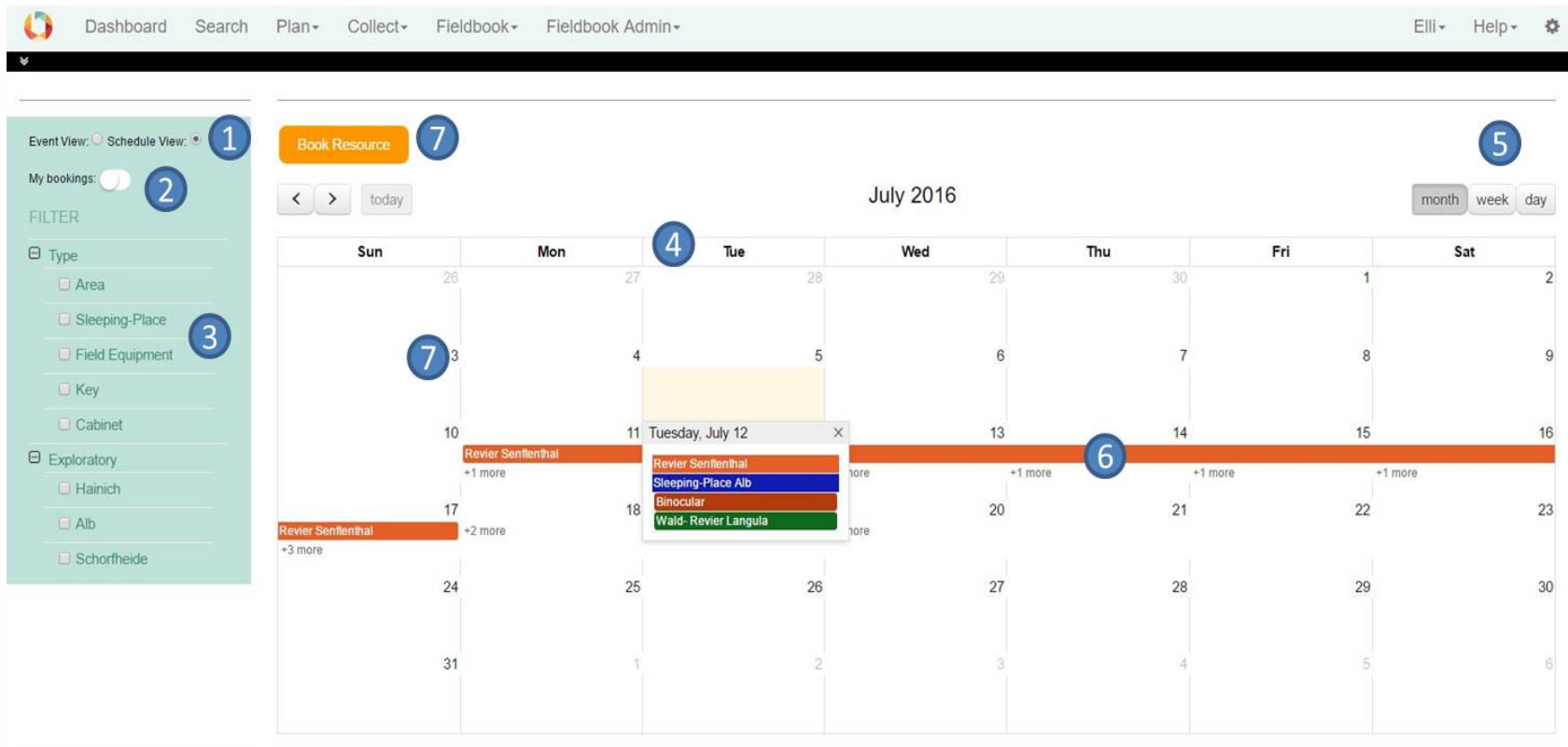
- **Field work related**
 - **Field book (Resource booking management)**
 - **Plot Map**
- **Event Management**
- **Document sharing**

Exploratories field book

- Reservation of resources needed for doing field work
- Resources are rooms and beds, vehicles, data collection tools, sample storage facilities, ...
- Resources can have dependencies and constraints

re-developed on a **generic** approach = flexibel and configurable

calendar: user entry point

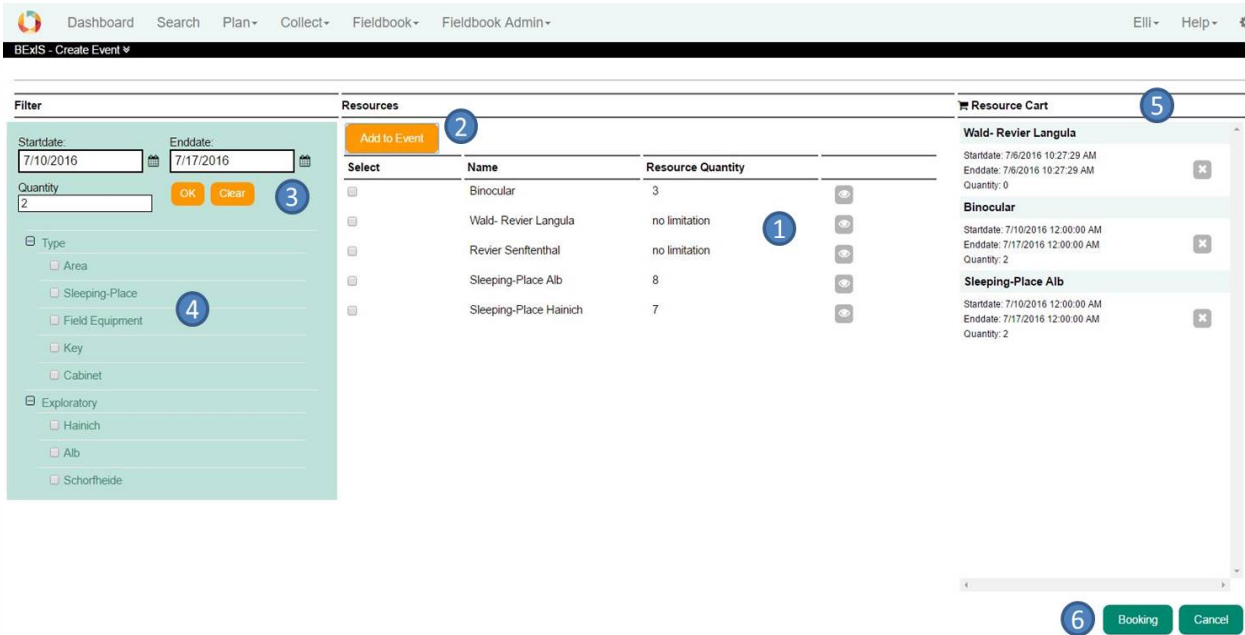


The screenshot shows the user interface of the Exploratories field book calendar. The interface is divided into several sections:

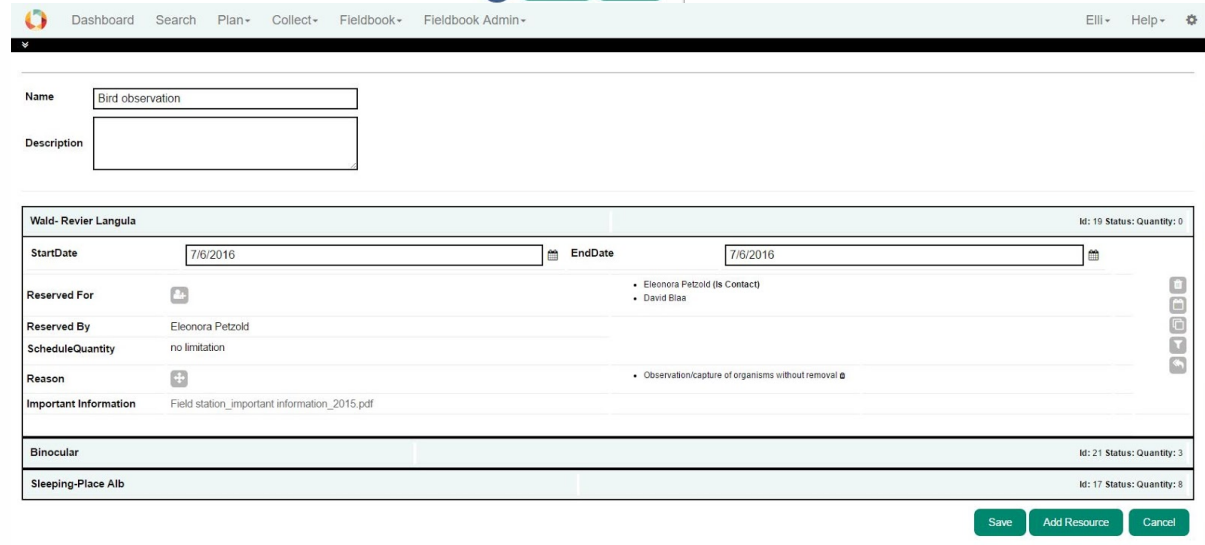
- Navigation and Search:** At the top, there is a navigation bar with links for Dashboard, Search, Plan, Collect, Fieldbook, and Fieldbook Admin. On the right, there are links for Elli and Help, and a settings icon.
- Event View and My Bookings:** On the left side, there is a sidebar with "Event View" and "Schedule View" options (1), a "My bookings" toggle switch (2), and a "FILTER" section with checkboxes for "Type" (Area, Sleeping-Place, Field Equipment, Key, Cabinet) and "Exploratory" (Hainich, Alb, Schorfheide) (3).
- Calendar Header:** The main calendar area has a "Book Resource" button (7) and a "July 2016" header with navigation arrows and a "today" button. On the right, there are view options for "month", "week", and "day" (5).
- Calendar Grid:** The calendar grid shows days from Sunday to Saturday. A yellow bar is visible on Tuesday, July 12 (4). A pop-up window for Tuesday, July 12 (6) shows a list of resources: "Revier Sententhal", "Sleeping-Place Alb", "Binocular", and "Wald- Revier Langula".

Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27	28	29	30	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	1	2	3	4	5	6

Book resource: 1st - select one or multiple resources for one booking event



2nd - define details of reservation for every schedule



Name	Start Date	End Date	Reserved For	Reserved By	Schedule Quantity	Reason	Important Information
Wald- Revier Langula	7/6/2016	7/6/2016	Eleonora Petzold (is Contact) David Blaas	Eleonora Petzold	no limitation	Observation/capture of organisms without removal	Field station_important information_2015.pdf
Binocular							
Sleeping-Place Alb							

re-developed on a **generic** approach = flexibel and configurable

Create your own resources...

Dashboard Search Plan- Collect- Fieldbook- Fieldbook Admin- Elli- Help- ⚙

BExIS - Create new Resource

Name: Resource Structure:

Description:

Quantity:

Color:

Duration:

Time Unit:

Exploratory:

Type:

Important Information:

Confirmation File:

Resource Constrains

...with their own dependency, blocking or quantity constraints

Dependency:

Dependency: Mode: Dependency on: Quantity: Implicit: Description:

Blocking: Mode: For people: Start/End times: Description:

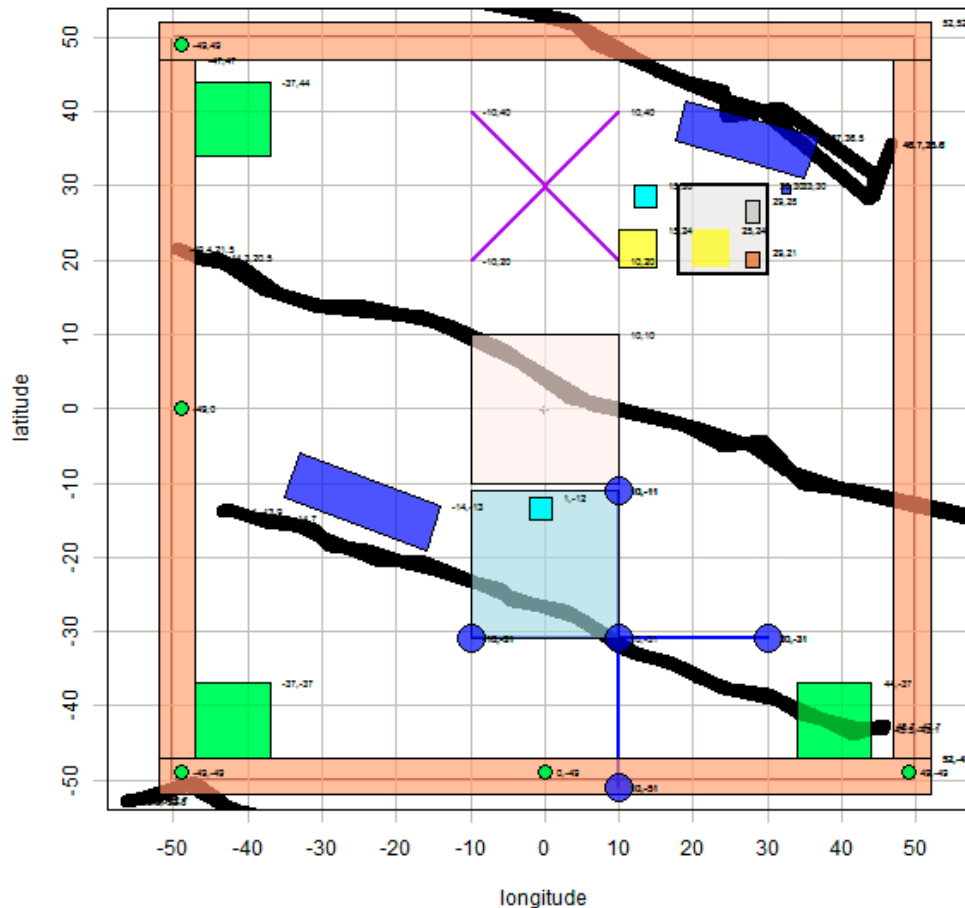
Quantity: Mode: For people: Start/End times: Description:

Exploratories plot map

- Map of every research field site (300 plots)
- Subplots of every field study is drawn
- History and current status available

NAME	GEOMETRY_TYPE	COORDINATES	COLOR	COORD_TYPE	REFERENCE_POINT	NOTES	Compute Plot
Arthropods I	rectangle	34,-47,44,-37	green	xy		since 2008: pitfall traps and flight-interception traps	Edit Delete
BECycles - throughfall samplers	linestring	(-10,10), (40,20)	purple	xy		since 2009: sampling of throughfall with 20 rainfall	Edit Delete

rectangle | | | xy | | | New



re-developed more **generic** and **de-coupled** from external services

Create your own plots as rectangle, circle or polygon

Dashboard Search Plan Collect
Log In Help

Displaying items 1 - 10 of 116

Plot Id	Geometry Type	Coordinate	Coordinate Type	Latitude	Longitude	Edit	Archive	Delete	Export	List
SEW50	rectangle	-50,-50,50,50	xy	53.03952843	13.78704314					
HEG1	rectangle	-25,-25,25,25	xy	50.97164834	10.40536291					
AEW4	rectangle	-50,-50,50,50	xy	48.39909865	9.244827343					
AEW36	rectangle	-50,-50,50,50	xy	48.38040166	9.22307025					
SEW1	rectangle	-50,-50,50,50	xy	52.90084729	13.84636695					
SEW2	rectangle	-50,-50,50,50	xy	52.95172886	13.77802812					
SEW3	rectangle	-50,-50,50,50	xy	52.92070744	13.6430016					
SEW31	rectangle	-50,-50,50,50	xy	52.88107754	13.9033697					
SEW4	rectangle	-50,-50,50,50	xy	52.91734663	13.84731137					
SEW5	rectangle	-50,-50,50,50	xy	53.05703356	13.88536623					

Displaying items 1 - 10 of 116

Name:

Coordinate:

Latitude:

Longitude:

Geometry Type:

Coordinate Type:

Geometry Type	Coordinates Type xy	Coordinates Type polar
rectangle	xStart,yStart,xEnd,yEnd	(alphaLowerLeft,distLowerLeft), (alphaUpperRight,distUpperRight)
example	-31,32.5,-28,35.5	(100,20.5),(100,30)
linestring	(x1, x2, ..., xN),(y1, y2, ..., yN)	(alpha1,dist1), (alpha2,dist2), ... (alphaN,distN)

Draw subplots on each plot or upload information as file

Plotchart: include former subplots draw beyond plot borders Grid Size:



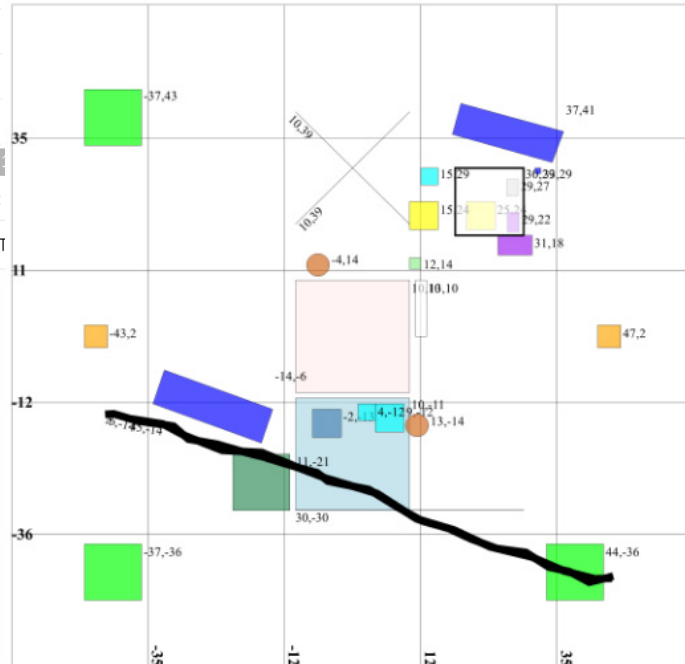
Displaying items 1 - 10 of 29

Name	Geometry Type	Coordinate	Coordinate Type	Line Width	Color	Description	Edit	Archive	Delete
HEW1	POLYGON	10,12,12,14	xy	1					
HEW1	POLYGON	-10,-31,10,-11	xy	1					
HEW1	POLYGON	-21,-31,-11,-21	xy	1					
HEW1	POLYGON	-47,-47,-37,-37	xy	1					
HEW1	POLYGON	-47,34,-37,44	xy	1					
HEW1	POLYGON	34,-47,44,-37	xy	1					
HEW1	POLYGON	-10,-10,10,10	xy	1					
HEW1	LINestring	(45.5,42.5,37.1,31.4,24.1,...	xy						
HEW1	LINestring	(45.7,44.7,41.5,38,34.4,30...	xy						
HEW1	POLYGON	10,19,15,24	xy						



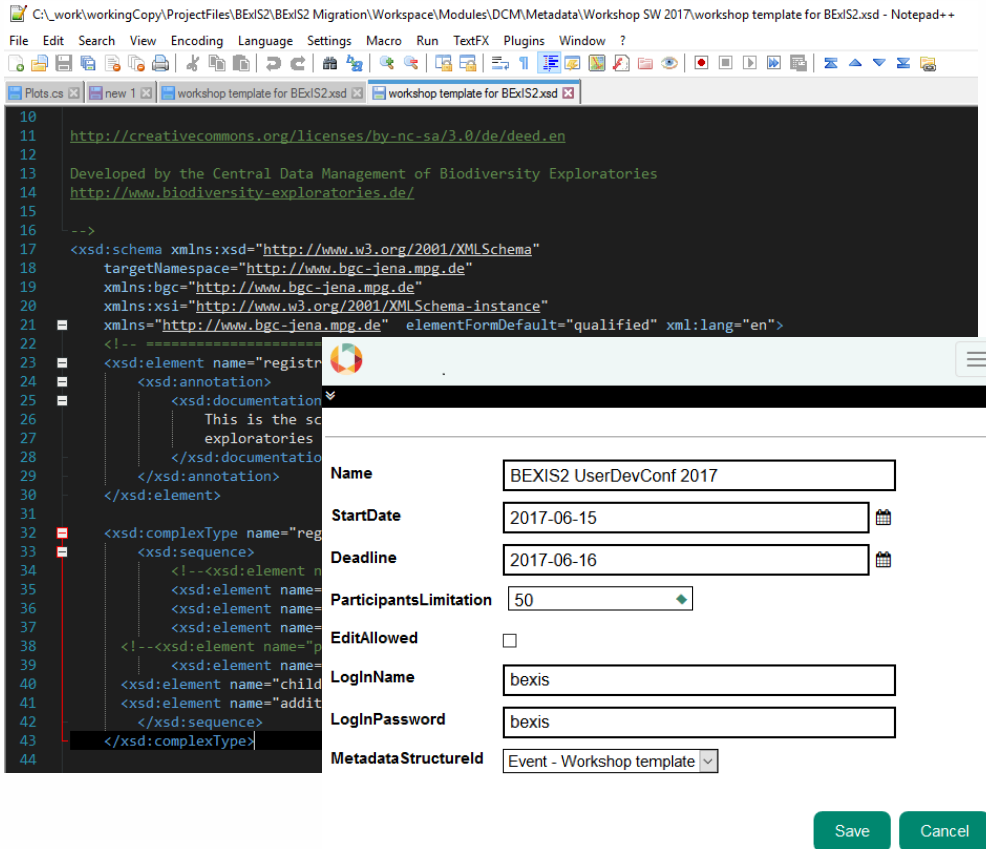
Displaying items 1 - 10 of 29

Name: Coordinate: Description:
 Geometry Type: Color: Coordinate Type:



Exploratories event management

- Easy configurable event management tool



The screenshot shows a Notepad++ window with an XML schema for event management. The schema defines various fields and their constraints. Below the code, a configuration form is displayed with the following fields:

Name	BEXIS2 UserDevConf 2017
StartDate	2017-06-15
Deadline	2017-06-16
ParticipantsLimitation	50
EditAllowed	<input type="checkbox"/>
LoginName	bexis
LoginPassword	bexis
MetadataStructureId	Event - Workshop template

Buttons: Save, Cancel

re-developed more generic

personal Data * ^

* Last Name

* First Name

* Email

travel * ^

* Arrival

* departure

meals * ^

* Vegetarian

lodging * ^

* Accommodation

* Room Type

* Neighbor

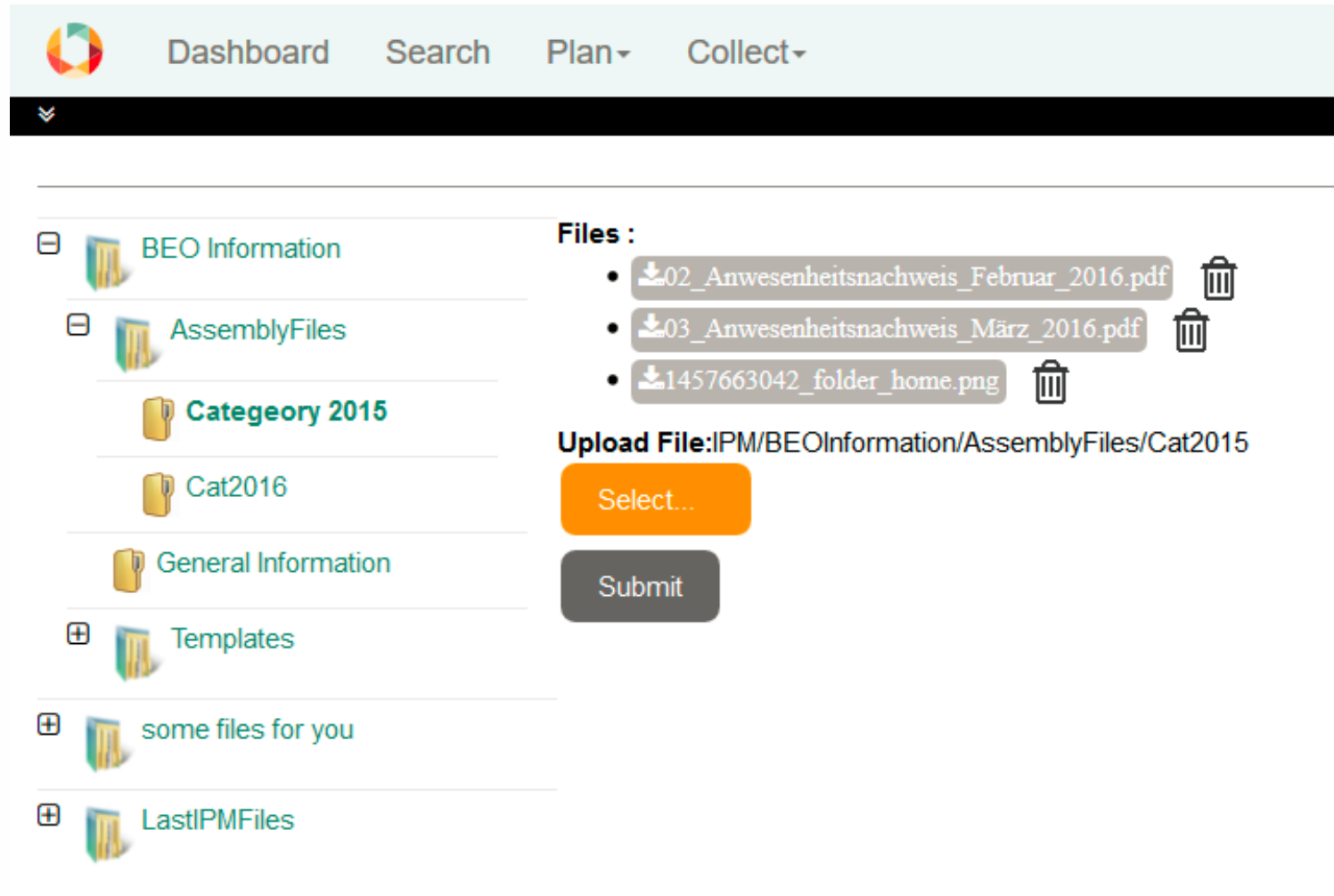
childcare * ^

* Need Childcare

additional Information * ^

Exploratories document sharing facility

- Easy usable file to page upload system



The screenshot shows the user interface of the Exploratories document sharing facility. At the top, there is a navigation bar with a logo on the left and menu items: Dashboard, Search, Plan (with a dropdown arrow), and Collect (with a dropdown arrow). Below the navigation bar is a dark horizontal bar with a downward arrow icon. The main content area is divided into two columns. The left column contains a list of folders, each with a folder icon and a title: BEO Information, AssemblyFiles, Category 2015, Cat2016, General Information, Templates, some files for you, and LastIPMFiles. The right column displays the 'Files' section for the selected folder path: IPM/BEOInformation/AssemblyFiles/Cat2015. It lists three files: 02_Anwesenheitsnachweis_Februar_2016.pdf, 03_Anwesenheitsnachweis_März_2016.pdf, and 1457663042_folder_home.png. Each file has a download icon and a trash icon. Below the file list, there is an 'Upload File:' label followed by the path 'IPM/BEOInformation/AssemblyFiles/Cat2015'. There are two buttons: an orange 'Select...' button and a grey 'Submit' button.

Dashboard Search Plan Collect

Files :

- 02_Anwesenheitsnachweis_Februar_2016.pdf
- 03_Anwesenheitsnachweis_März_2016.pdf
- 1457663042_folder_home.png

Upload File:IPM/BEOInformation/AssemblyFiles/Cat2015

Select...

Submit

- **Field book (Resource booking management)**
- **Plot Map**
- **Event Management**
- **Document sharing**

...to grade up a data management platform to an information system?