



Tallinn University of Technology

ASP.NET Web Applications

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ICD0015

2-26-2023

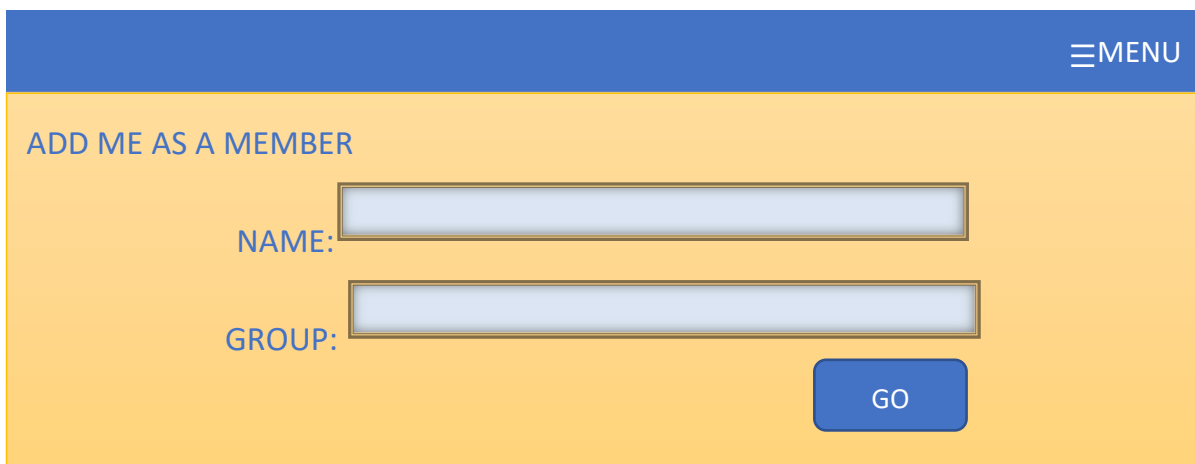
## Introduction

I need some kind of scheduler to take care of potential Abyssinian cat. It has to be fun tool to facilitate communication between family members. We have decided to accompany in care action while having otherwise separate lives. So we can participate in each others life, while information builds up to form some content.

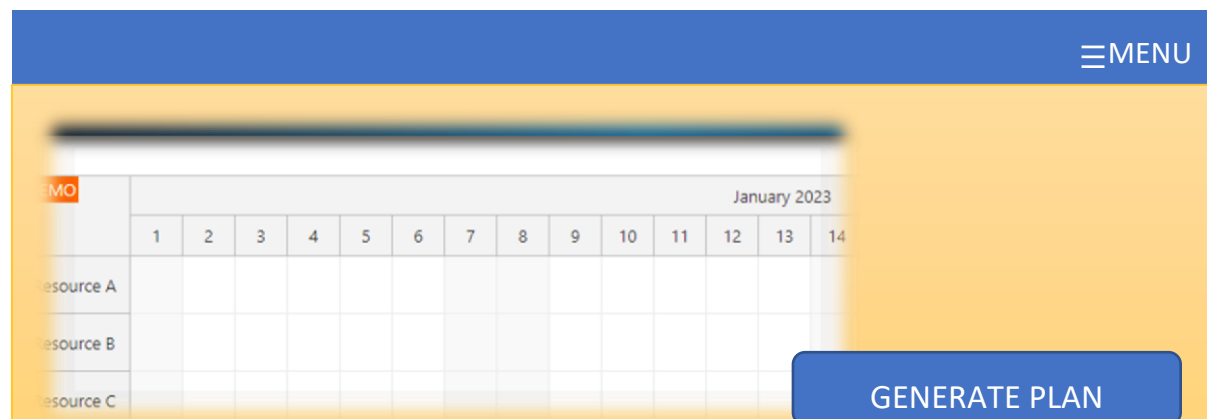
## Idea

I want my app to communicate with dedicated archive via http request. I have decided that we sync only recently updated data from App. Idea is to either use valid flag and surrogate id or temporal tables approach. Whatever works best.

## Mockup – „Initial“



The mockup shows a mobile app interface with a blue header bar containing a hamburger menu icon and the word "MENU". The main content area has a yellow background and is titled "ADD ME AS A MEMBER". It contains two text input fields: "NAME:" and "GROUP:". Below the "GROUP:" field is a blue button labeled "GO".



The mockup shows a mobile app interface with a blue header bar containing a hamburger menu icon and the word "MENU". The main content area has a yellow background and displays a calendar for "January 2023". The calendar has columns for days 1 through 14. Below the calendar, there are three rows labeled "Resource A", "Resource B", and "Resource C". A blue button labeled "GENERATE PLAN" is positioned at the bottom right of the calendar area.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Resource A														
Resource B														
Resource C														

## Mockup – „Initial“ step 3 / „Returning" Page 1

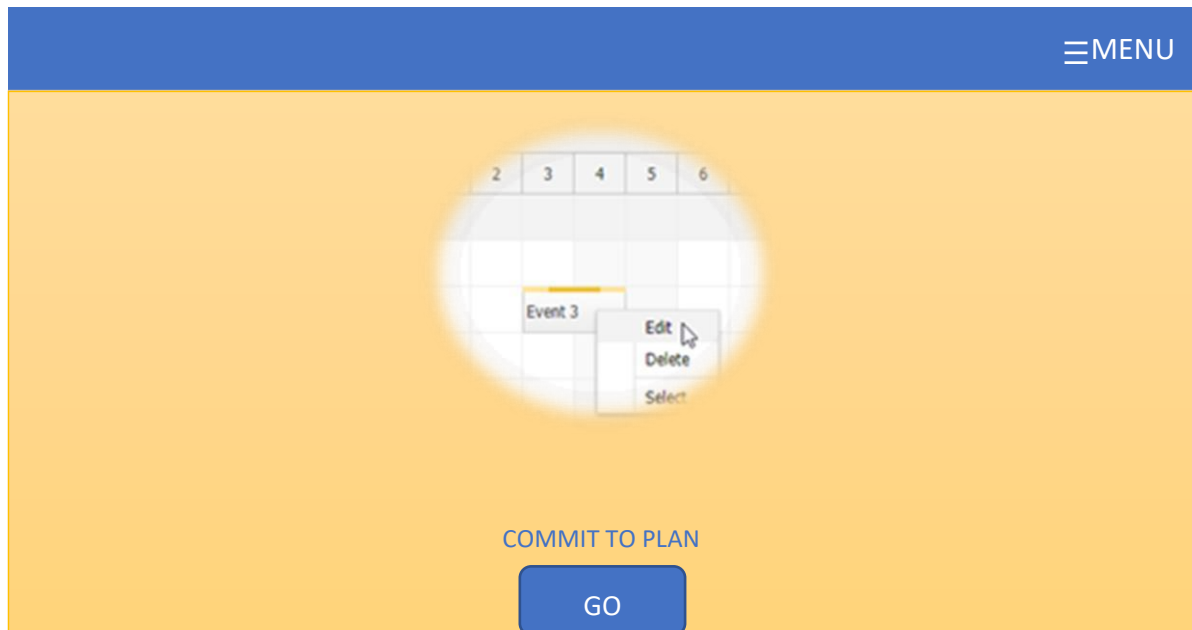


Figure 1: Edit Event 3

### Flow Initial

- 1) Create member Action  
Page expecting user input for name and password
- 2) Create scedule Action  
Auto-generate Schedule: Event1, Event2, Event3 [DayPilot 2023]
- 3) Modify Sedule Action  
Page: Save changed Schedule [DayPilot 2023]

### Flow Returning

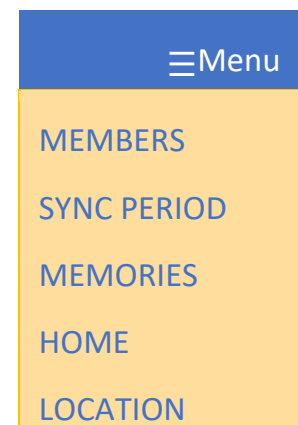
- 1) Modify Sedule Action
- 2) Add Member vacancy, its when somebody is away or not. Calendar row group.

### Menu

- 1) Members
- 2) Edit Synchronization periods- Action
- 3) Generate Memories (Implement only Placeholder content)  
Download output

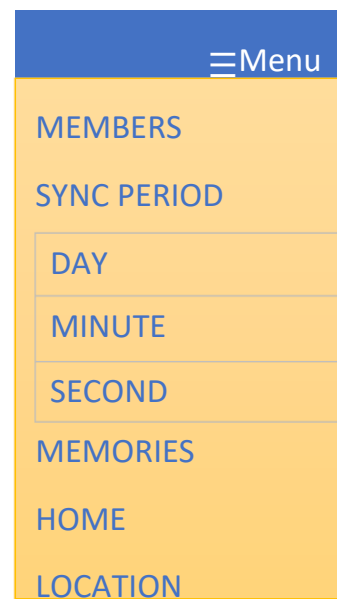
### MEMBERS

- 1) List Members: Create, Edit, Delete buttons in rows



## SYNC PERIOD

1) Select sync option from submenu



## MEMORIES

1) Download Action

## Dashboard

To care for a cat you will need to:

Provide plenty of human companionship

Provide regular, suitable meals with a constant supply of fresh water

Provide a clean and comfortable bed

Provide the cat with outdoor access or be prepared to empty and clean a litter tray on a daily basis

Provide it with a stimulating and safe environment

Groom it regularly. Longhaired cats require daily grooming

Have it neutered between 4 and 6 months old

Vaccinate against the major feline diseases regularly

Worm regularly and provide treatment for fleas

Take the cat to the vet when it shows any sign of illness

Insure your cat or make sure you can afford the cost of any veterinary treatment it may need

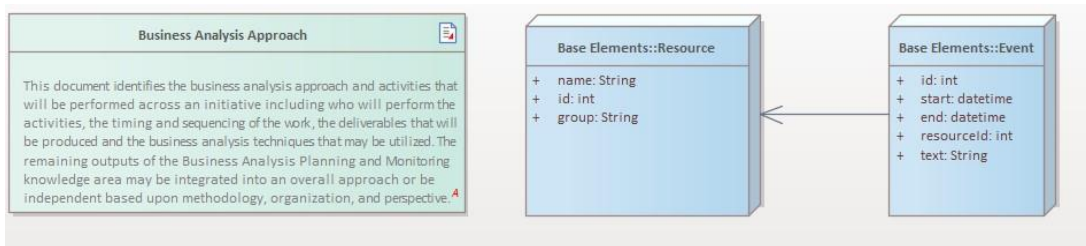


Figure 2. EA Conceptual model, Resource and Schedule Event.

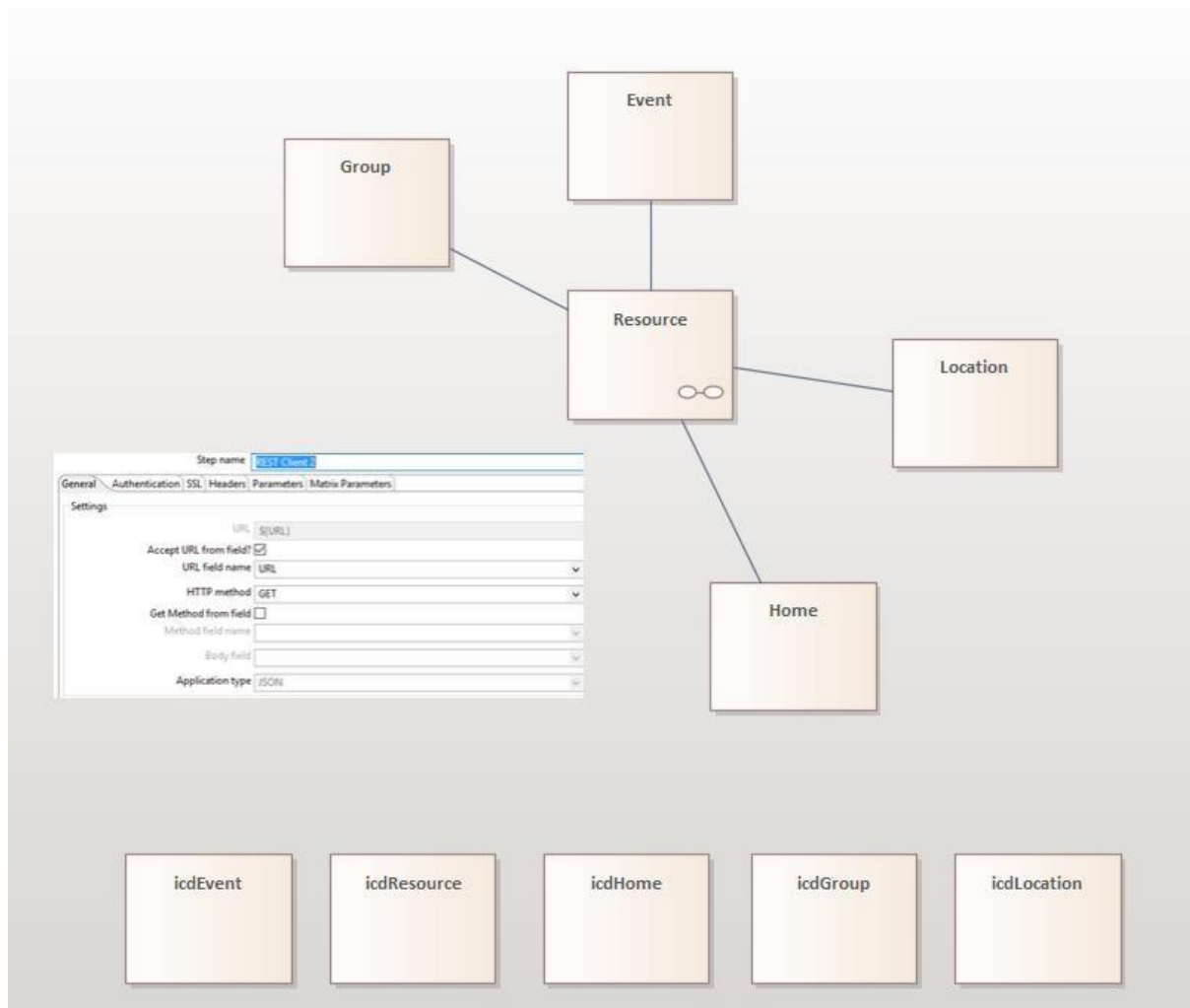


Figure 3. EA Class diagram, Rest API . <https://aruanne.icd.live/rest/v1/calls?lastUpdated=gt:2023-0222T04:44:21Z&lastUpdated=lte:2023-02-22T10:44:21Z&sort=lastUpdated&order=asc&limit=1000>

## Entities

Resources	
string: id string: name string: group json: created json: updated	1

Events	
int: id datetime: start datetime: end string: <b>resourceId</b> string: text string: color json: created json: updated	*

Home	1
int: id string: name	

HomeResource	**
int: id string: <b>resourceId</b> int: <b>homeId</b>	

Group	1
int: id string: name	

Location	*
int: id geojson:json string: <b>resourceId</b>	

icdLocation	
int: id geojson:json string: resourceId	

icdResources	
string: id string: name string: group string: updatedBy timestamp: updated boolean: valid timestamp: validFrom timestamp: validTo	

icdEvents	
int: id datetime: start datetime: end string: resourceId string: text string: color string: updatedBy timestamp: updated boolean: valid timestamp: validFrom timestamp: validTo	

icdHome	
int: id string: name string: resourceId boolean: valid timestamp: validFrom timestamp: validTo	

icdHomeResource	
int: id string: resourceId int:homeId boolean: valid timestamp: validFrom timestamp: validTo	

icdGroup	
int: id string: name	

## Inspiration, Stage II

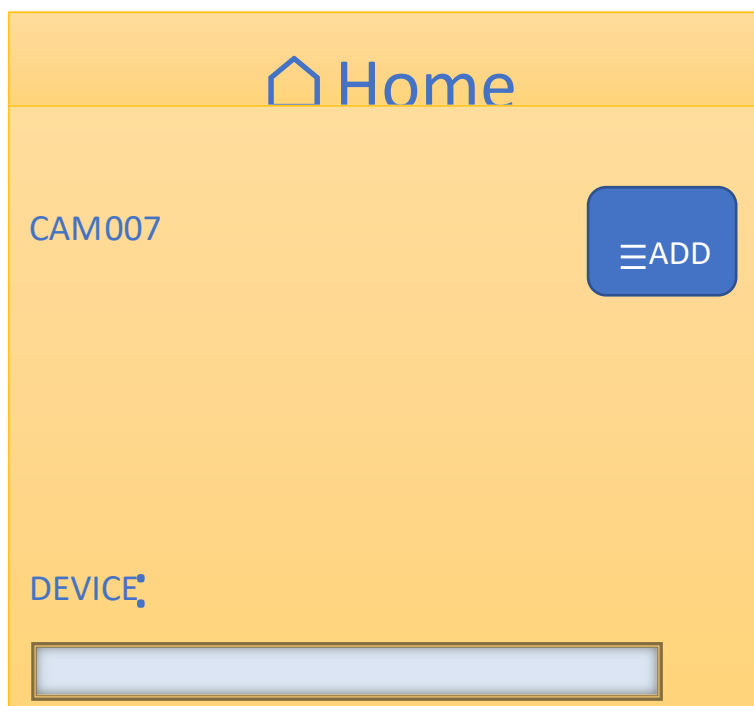
System integration projects can be incredibly rewarding. For out-of-date, legacy systems, different forms of integration offer the ability to enable real-time data sharing. This can enable, for example, publisher-subscriber data distribution models, consolidated databases, event-driven architectures, reduce manual user data entry, refresh or modernize the application's front-end, and offload querying and reporting from expensive operational systems to cheaper commodity systems (which can save costs, enable scalability, and free up processing power on the main operational system).  
[Wikipedia 20.02.2023]

## Idea, Stage II

Nothing yet

## Mockup, Stage II

Home controls, devices and widgets





deviceData	syncedDeviceData
int: id	int: id
timestamp: updatedAt	string: name
string: name	uid: referenceId
	timestamp: lastUpdated
	string: updatedBy
	string: updatedByProc
	timestamp: lastUpdatedProc
	boolean: valid
	timestamp: validFrom
	timestamp: validTo

## References

Javascript Scheduler, DayPilot, (2023-02-23) [<https://javascript.daypilot.org/demo/scheduler/>]

Core Scheduler, DayPilot, (2023-02-23) [<https://code.daypilot.org/32817/angular-annual-leavescheduling-asp-net-core-backend>]

System integration, Wikipedia, Wikimedia Foundation. (20.02.2023)  
[[https://en.wikipedia.org/wiki/Leonardo\\_da\\_Vinci](https://en.wikipedia.org/wiki/Leonardo_da_Vinci)]