

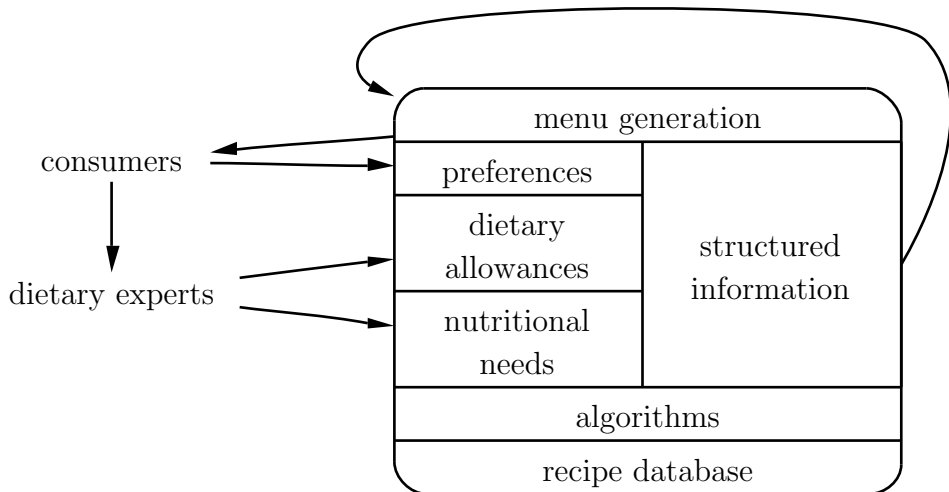
# **The Evolution of MenuGene**

## **A Dietary Counselling System**

**A. Endrodi**

**Dept. of Information Systems**  
**Supervisor: B. Gaal**

**June 14, 2007**



- **MenuGene:**

- **43457 lines**
- **1097040 bytes**

- **technologies:**

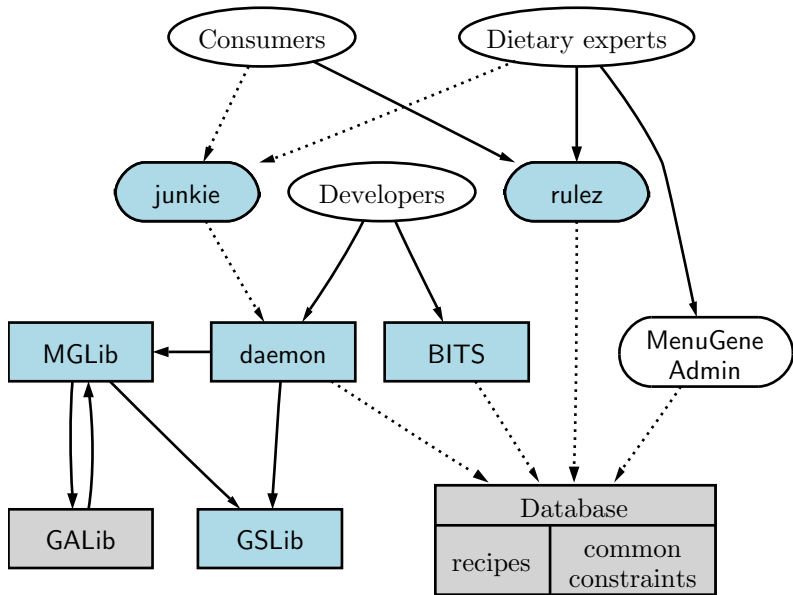
- **networking**
- **web, XML**
- **Oracle**
- **GUI**
- **genetic algorithms**

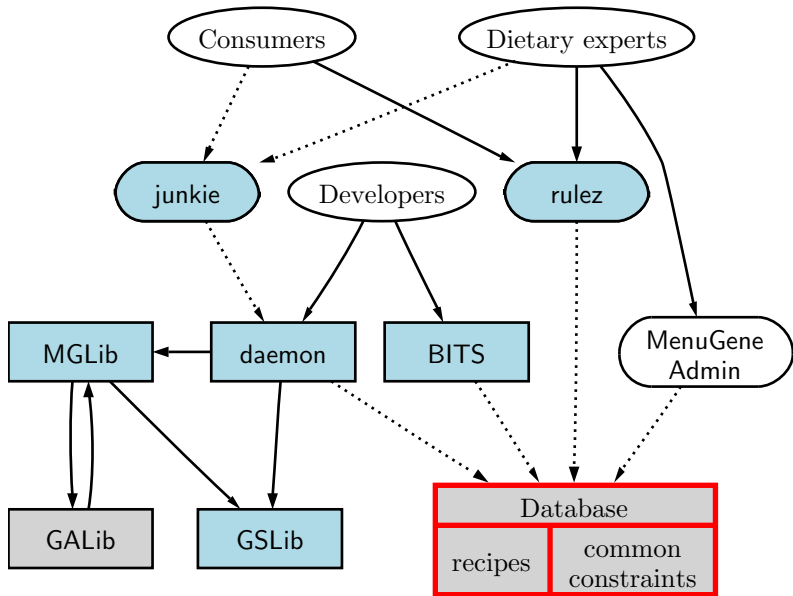
- **HioN v3.1 (1994):**

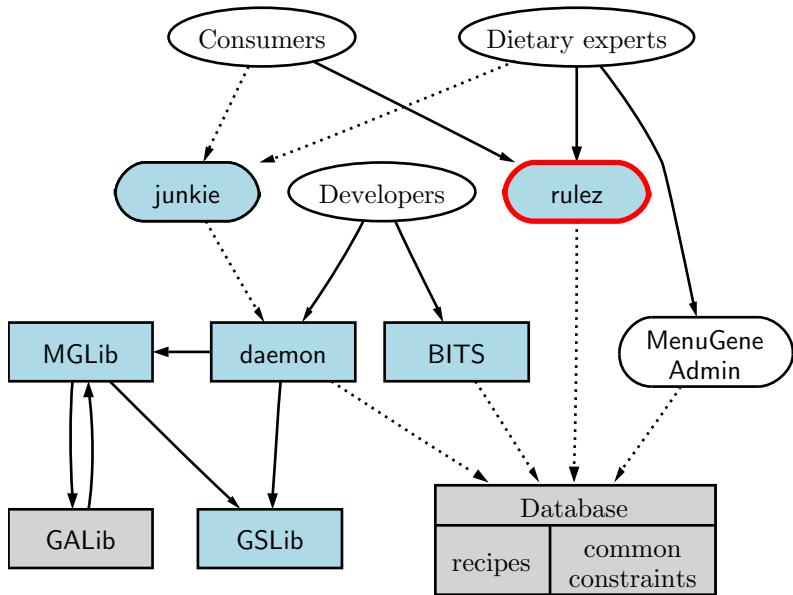
- **5911 lines**
- **198435 bytes**

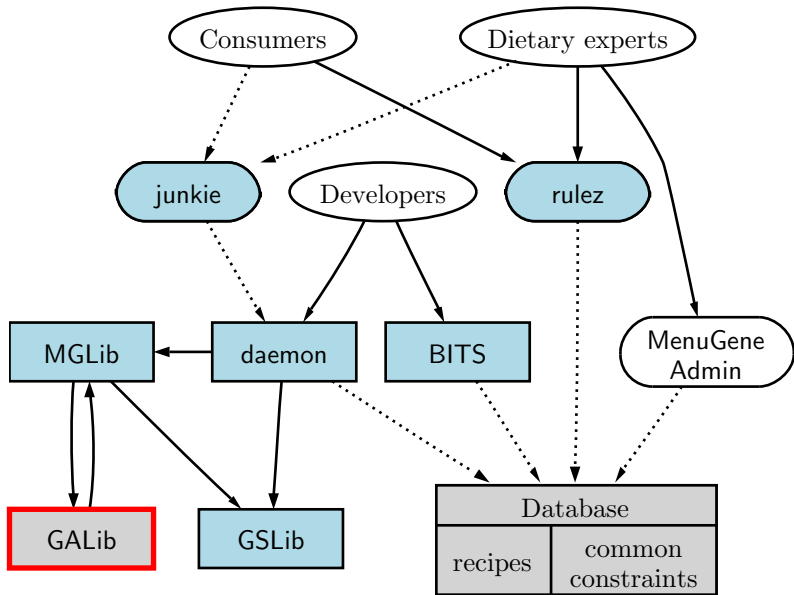
- **languages:**

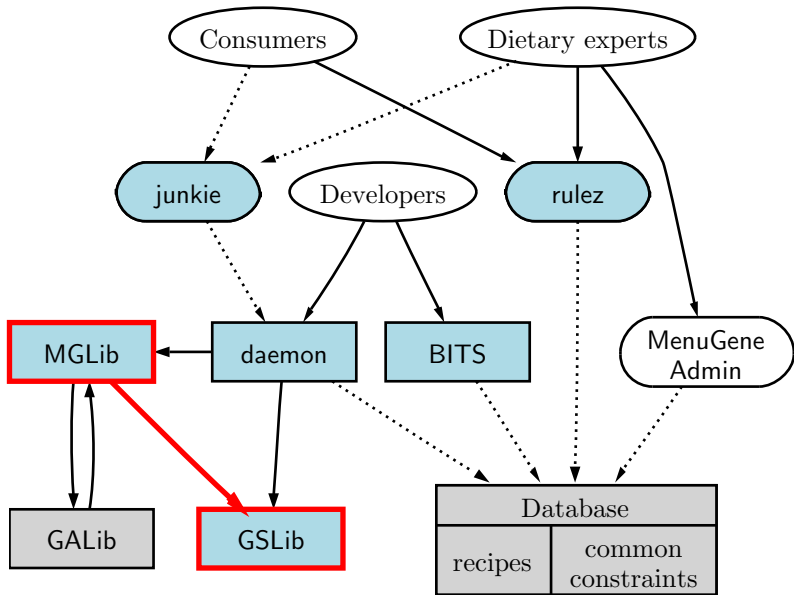
- **Perl**
- **C**
- **(Objective C)**
- **C++**
- **PHP**



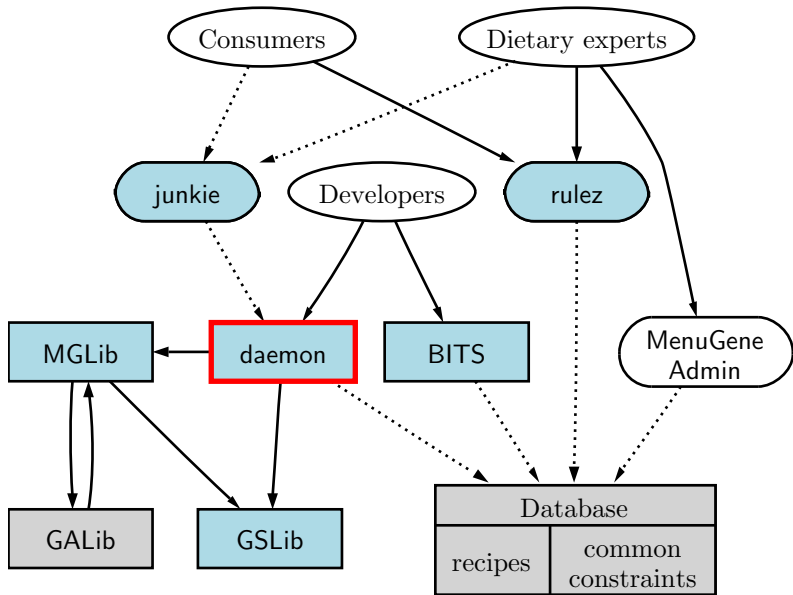


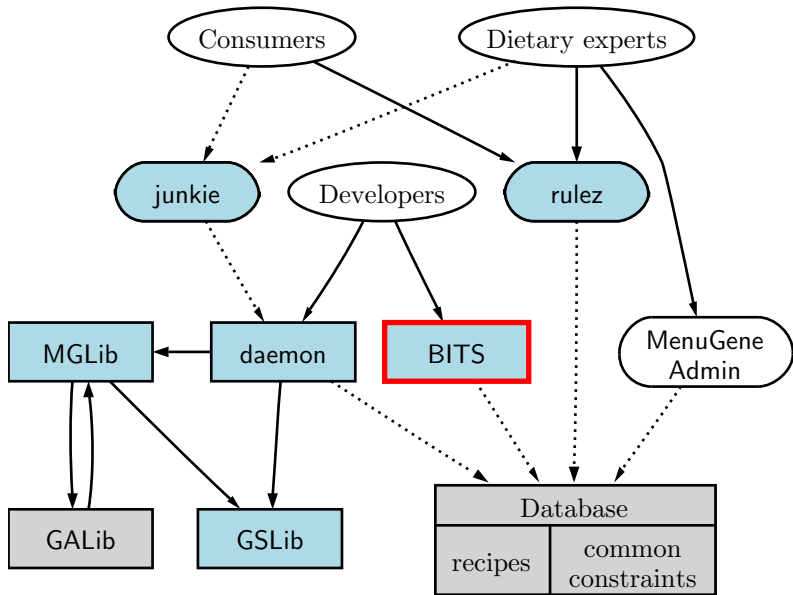


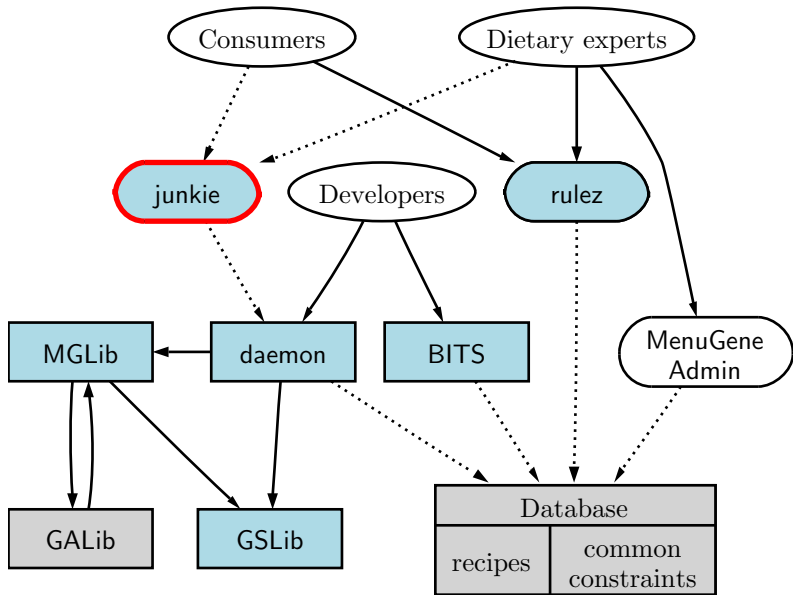














[English](#) [Magyar](#) [Exit](#)

Hide bounds

## Bounds

Remove all	Nourishment components	Minimum	Optimal	Maximum
Remove	Energy	271	286	300
Remove	Protein	64	66	71
Remove	Fat	21	25	29
Add	valid			

Generate menu for ☒ a day ☐ a week

Defaults

Save

Generate

Basic

Fitness algorithm:

TDK

Initial cset:

0

## Your daily plan

		Energy	Protein	Fat
Topping	Racos sertes szelet	43	23	6
Garnish	Szekelykaposzta	58	26	7
Soup	Spargakremleves	159	1	1
Dessert	Malnas dessert 100 db	18	15	3
Drink	Gyumolcsivole 5/l.	1	--	--
<b>Daily total</b>		279	65	17

Generation took 0:29.5 seconds.

Accuracy		
Nourishment component	Distance	Accuracy
Energy	7	78.221954%
Protein	1	75%
Fat	8	-300%
<i>Total</i>	10.677078	-48.926014%

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- **...**

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Over



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  - **reference counting**
  - **copy on write**
  - **containers**
- Logging
- Error handling
- Collections
- XML driver
- Test suite

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- **ttc: execution tracer**
- **subborn: Subversion history browser**
- **Prima: several enhancements**
  - **drag'n'drop**
  - **undo manager**
  - **a new geometry manager**

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# Database schema

## Postgres

- **table inheritance**
- **type domains**
- **composite types**
- **arrays**
- **partial indices**

# Moral lessons

- **Don't fear low marketshare technologies**
- **Do fear the **I**nferior **B**ut **M**arketable**
- **Investment in development tools pays back**