

Criterion B – Solution Overview

Input / Output

Input of Tenants Information

Input	Java Data Type	Example
Name of tenant	String	"Ashley Pickles"
Tenants Address	String	"Nebusicka 857, Praha 6"
Telephone number	String	"+420 776 802 238"
Email Address	String	"ashleyp@gmail.com"
Date tenants signed lease	String	"23/09/12"
Date end of lease	String	"23/9/14"
Rent Paid	Double	"700,000 CZK"
Service Paid	Double	"50,000 CZK"

Input of Repair Information

Input	Java Data Type	Example
Tenant	ComboBox	"Ashley Pickles"
Repair Type	String	"Hole in wall"
Was repair resolved?	CheckBox	"Yes or no"
Property Cost for Rent	Double	"8,000,000 CZK"
Image of problem	Image	image
Description of problem	String	"A hole in the wall of the living room"

Input of Property Information

Input	Java Date Type	Example
Property	ComboBox	"Apartment on St. Charles, 857 Praha 6"
Development Cost	Double	"5,000,000 CZK"
Repair Budget	Double	"80,000 CZK"
Address	String	"Nebusicka 857, Praha 6"
Image	Image	Image

Input of Due Dates

Input	Java Data Type	Example
Task to do	String	"Fix hole in wall at St. Charles, 857 Praha 6"
Start Date	String	"15/3/14"
Due Date:	String	"18/3/14"
Level of Importance	ComboBox	"1, 2, 3, 4, 5"

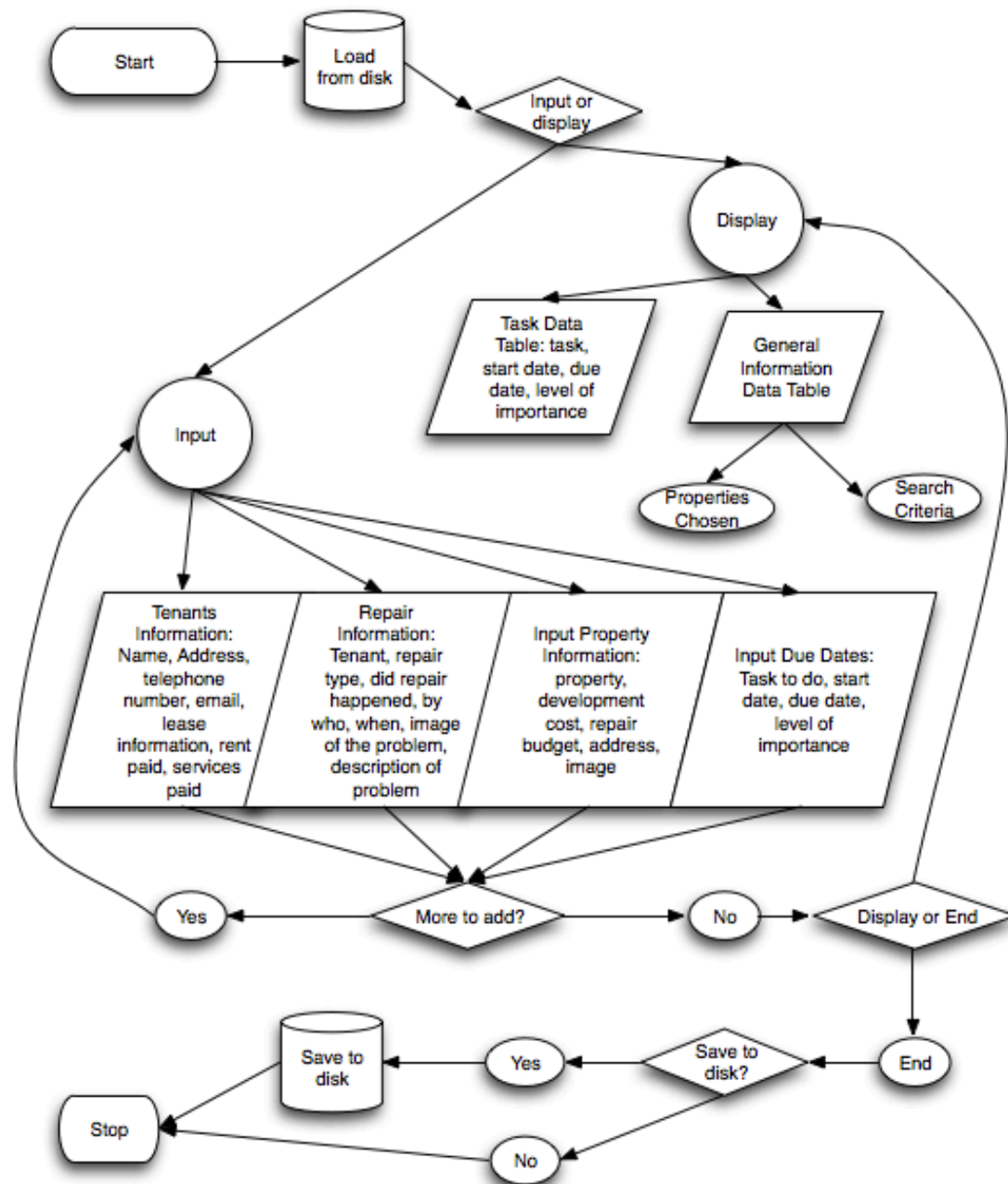
Output of General Information

Input	Java Data Type	Example
Name of tenant	String	"Ashley Pickles"
Tenants Address	String	"Nebusicka 857, Praha 6"
Telephone number	String	"+420 776 802 238"
Email Address	String	"ashleyp@gmail.com"
Date tenants signed lease	String	"23/09/12"
Date end of lease	String	"23/9/14"
Rent Paid	Double	"700,000 CZK"
Service Paid	Double	"50,000 CZK"
Tenant	ComboBox	"Ashley Pickles"
Repair Type	String	"Hole in wall"
Was repair resolved?	CheckBox	"Yes or no"
Property Cost for Rent	Double	"8,000,000 CZK"
Image of problem	Image	image
Description of problem	String	"A hole in the wall of the living room"
Property	ComboBox	"Apartment on St. Charles, 857 Praha 6"
Development Cost	Double	"5,000,000 CZK"
Repair Budget	Double	"80,000 CZK"
Address	String	"Nebusicka 857, Praha 6"
Image	Image	Image

Output of Due Dates

Task to do	String	"Fix hole in wall at St. Charles, 857 Praha 6"
Start Date	String	"15/3/14"
Due Date:	String	"18/3/14"
Level of Importance	ComboBox	"1, 2, 3, 4, 5"

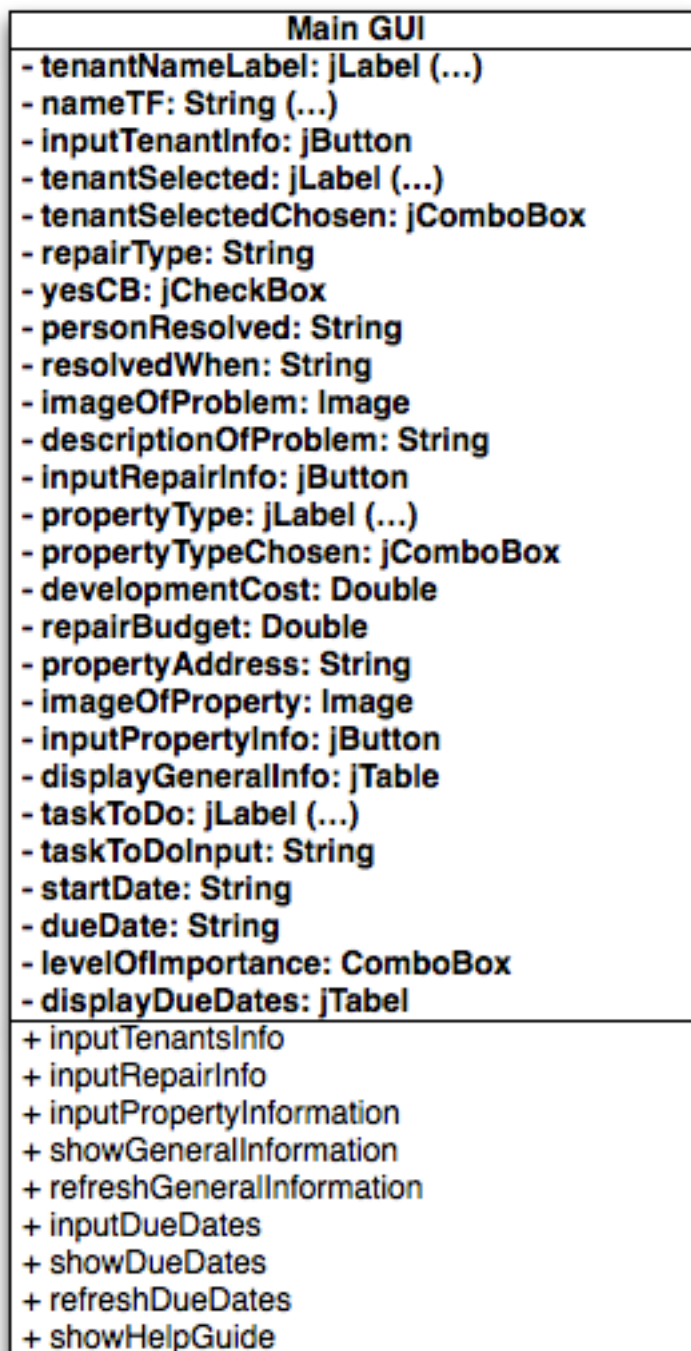
Flow Chart



Chronological Development Plan

- Create attributes and constructors in three separate classes, each class including all data pieces
- Save data to a file.
- Allow data to be displayed.
- Create attributes and constructors for due dates.
- Save data of due dates to a file
- Allow due dates to be displayed in table.
- Refresh display table when choosing items.
- Refresh due dates when user clicks on tab.
- Automatic notifications on due dates regarding tenants contract information.
- Key board short cuts
- Inputting image of property

Main GUI UML



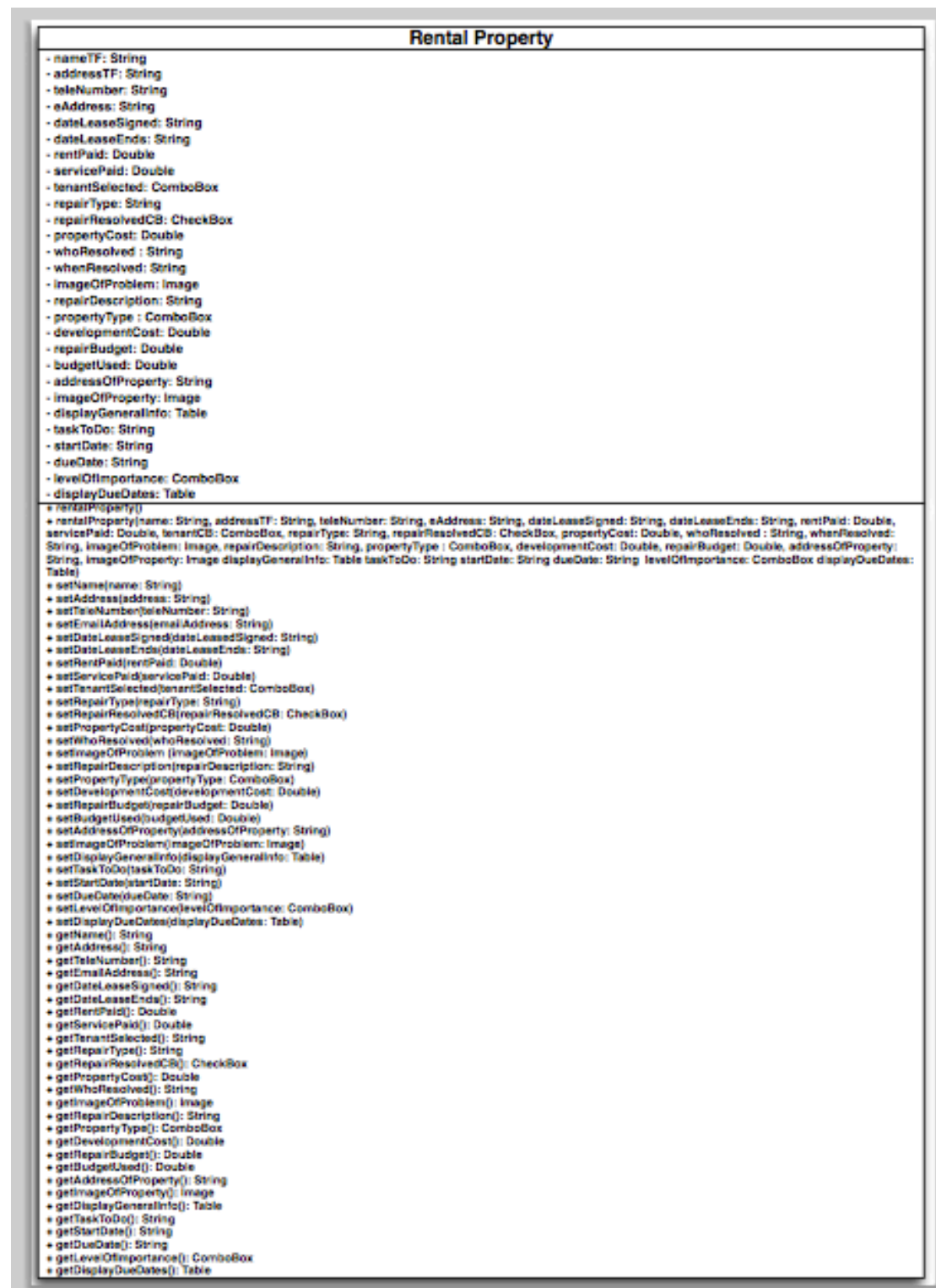
Sort/Search/Save/Open

Sort and Search - General Info Table
SortByLeaseDate
SortByName
SortByCost
SortByNumberOfRepairs
SortByRepairType
SortByBudget

Sort and Search - Tasks Table
SortByTask
SortByImportance
SortByDueDate
SortByStartDate

Open and Save
- fileChooser: JFileChooser
- stringSaveFile: StringAttribute
- fw: FileWriter
- bw: BufferedWriter
- fr: FileReader
- br: BufferedReader
- readIn: String
- st: StringTokenizer

Class Diagram



Testing

File Edit Help

Tenants Information Repair Information Input Property Information Display Information Due Dates

Tenants Name: jTextField14 Date tenant signed lease: jTextField18

Tenants Address: jTextField16 Date end of lease: jTextField19

Telephone number: jTextField17 Rent Paid: jTextField20

Email Address: jTextField15 Services Paid (Electricity, Water, Gas): jTextField21

jButton1

Things Done in this Tab:

- Tenants name input
- Tenants Address input
- Telephone number input
- Email Address input
- Date tenants signed lease input
- Date end of lease input
- Rent paid input
- Services paid input
- Input button released

Normal Functioning to Test

- Tenants name: Kelly Pickles
- Tenants Address: Nebušicka 857, Praha 6
- Telephone number: +427 776 804 283
- Email address: kelly.pickles@gmail.com
- Date Tenant signed lease: 23/4/2012
- Date lease ends: 23/4/2015
- Rent paid: 45 000
- Services paid: 10 000
- Input button released: Should input all information in data table.

Border Case To Test

- Dates: 4/23/12 – not accepted. Date should be inputted dd/mm/yy.
- Inputting the same information twice – should be accepted but pop up menu will appear asking if they want to input the same information twice.

Abnormal/Extreme Situations To Test

- Tenants name: kelly pickles
- Tenants address: nebušicka 857, praha 6
- Telephone number: 776804283
- Dates: 23.4.12 or 23rd of April, 2012
- Rent paid/Services paid: 45,000 or 45.000
- If there is no input in one area, pop-up menu should appear.
- Currency type
- Czech letters e.g. š, č, ú, ž, ê, á, or í.

File Edit Help

Tenants Information Repair Information **Input Property Information** Display Information Due Dates

Tenants being dealt with: Item 1

Repair Type: jTextField1

Repair was resolved? Yes By whom? jTextField22 When? jTextField2

Image of problem: Upload thingy here

Description of problem: jTextField8

jButton2

Things Done in This Tab:

- Selection of Tenant
- Repair type input
- Repair details input
- Image of problem input
- Description of problem input
- Input general repair information

Normal Functioning Test

- Tenant Selected: Ashley Pickles – Nebušicka 857, Praha 6
- Repair Type: Hole in wall, lock won't open, door cracked open
- Repair details: yes or no, if yes then
 - By whom: Lucas
 - When: April 4, 2014
- Image of problem: input image
- Description of problem: Cost 3,000CZK. The hole in the wall had a circumference of 1.2 meters. This interfered with the tap water. The tap water doesn't work now.

Border Cases to Test

- Dates: 4/23/12 – not accepted. Date should be inputted dd/mm/yy.
- Inputting the same information twice – should be accepted but pop up menu will appear asking if they want to input the same information twice.

Abnormal/Extreme Situations to Test

- Dates: 31/2/12 – which month has 30 days and which has 31.
- If there is no input in one area, pop-up menu should appear.
- Capitalization
- Czech letters e.g. š, č, ú, ž, ê, á, or í.

File Edit Help

Tenants Information Repair Information **Input Property Information** Display Information Due Dates

Property Type: Address:

Development Cost: Image: Upload thingy here

Repair Budget:

Things Done in This Tab:

- Input of property type
- Input of development cost
- Input of repair budget
- Input of address
- Input image of property

Normal Functioning to Test

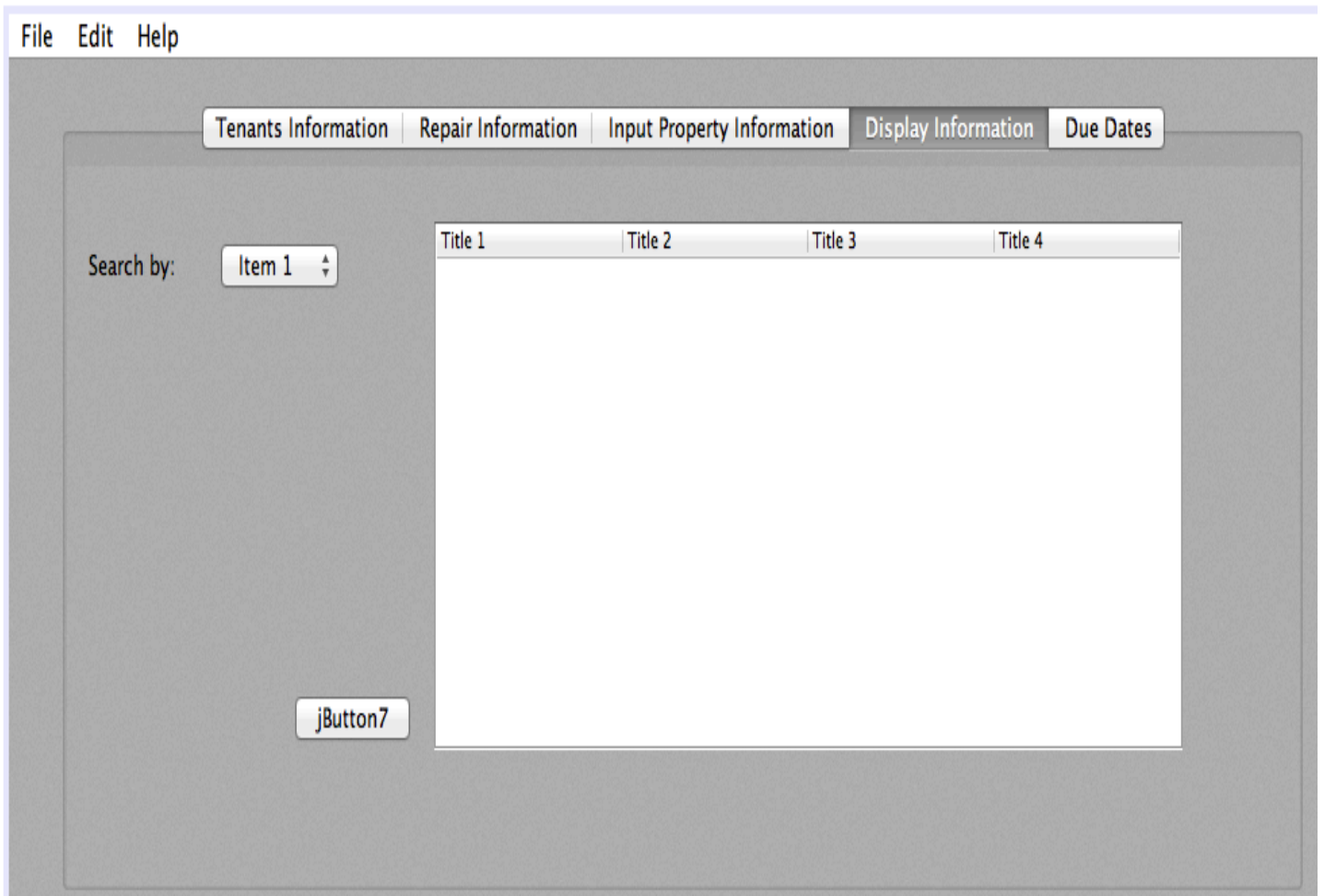
- Property Type: Apartment or house
- Development cost: 1,000,000 CZK
- Repair budget: 10,000 CZK
- Address: Nebušicka 857, Praha 6
- Image: upload image

Border Cases to Test

- Dates: 4/23/12 – not accepted. Date should be inputted dd/mm/yy.
- Inputting the same information twice – should be accepted but pop up menu will appear asking if they want to input the same information twice.

Abnormal/Extreme Situations to Test

- Currency type
- If there is no input in one area, pop-up menu should appear.
- Costs: 45,000 or 45.000
- Capitalization
- Czech letters e.g. š, č, ú, ž, ê, á, or í.



Things Done in This Tab:

- Search view option
- Database output
- Refresh database

Normal Functioning to Test

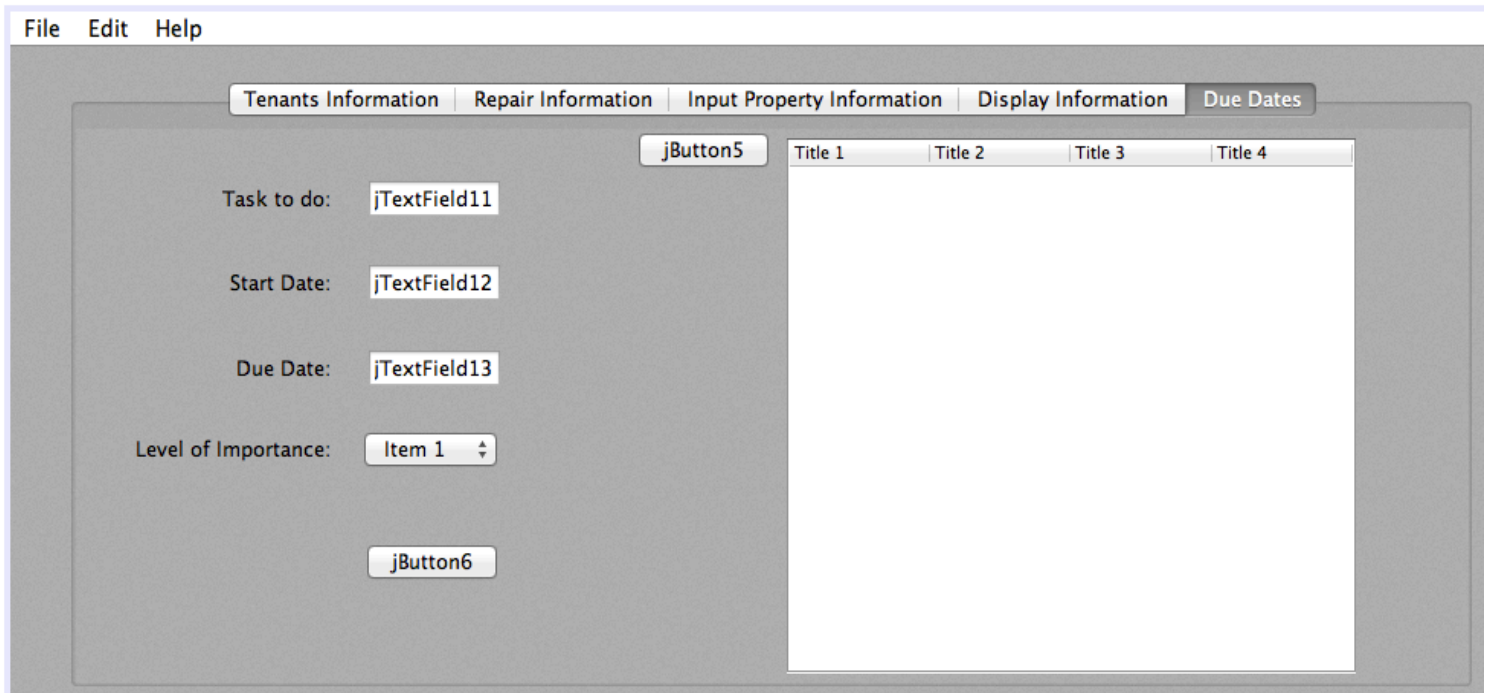
- Search by e.g.: Name
- Database output: Kelly Pickles | Nebušicka 857, Praha 6 |150,000,000 | etc.

Border Cases to Test

- Null

Abnormal/Extreme Situations to Test

- Null



Things Done in This Tab:

- Input of task to do
- Input of start date of task
- Input of due date of task
- Input of level of importance of task
- Display database of tasks output
- Refresh database of tasks

Normal Functioning to Test

- Task to do: Find cleaning lady for Kelly Pickles
- Start date: 23/09/2013
- Due Date: 30/09/2013
- Level of importance: 1, 2, 3, 4, 5
- Refresh button: Display latest information of tasks

Border Cases to Test

- Dates: 4/23/12 – not accepted. Date should be inputted dd/mm/yy.
- Inputting the same information twice – should be accepted but pop up menu will appear asking if they want to input the same information twice.

Abnormal/Extreme Situations to Test

- Dates: 31/2/12 – which month has 30 days and which has 31.
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