

SDSS Project concept

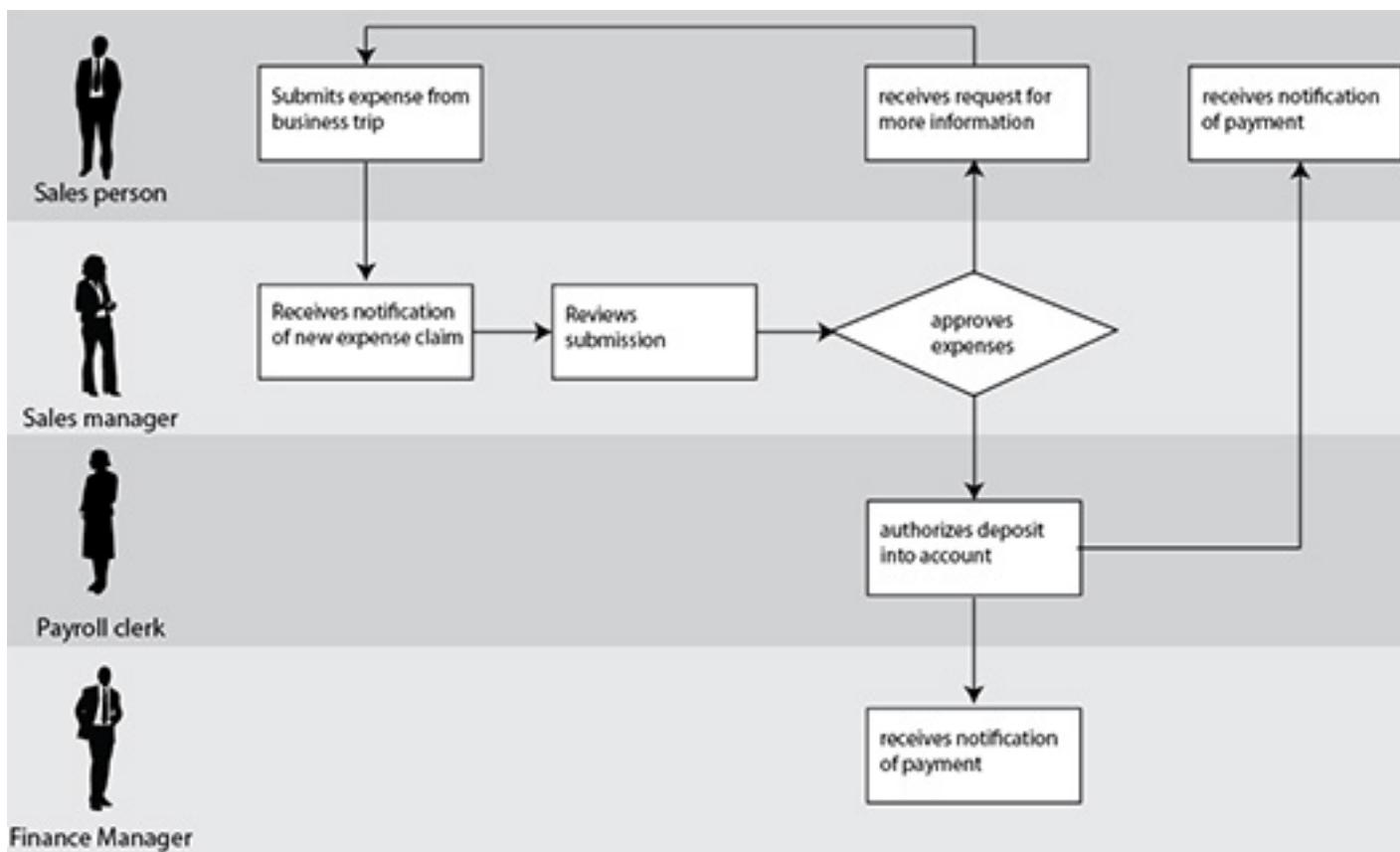
GEO1005 (2017-18 Q2)

Spatial Decision Support for Planning and
Crisis Management

Jorge Gil and Sisi Zlatanova

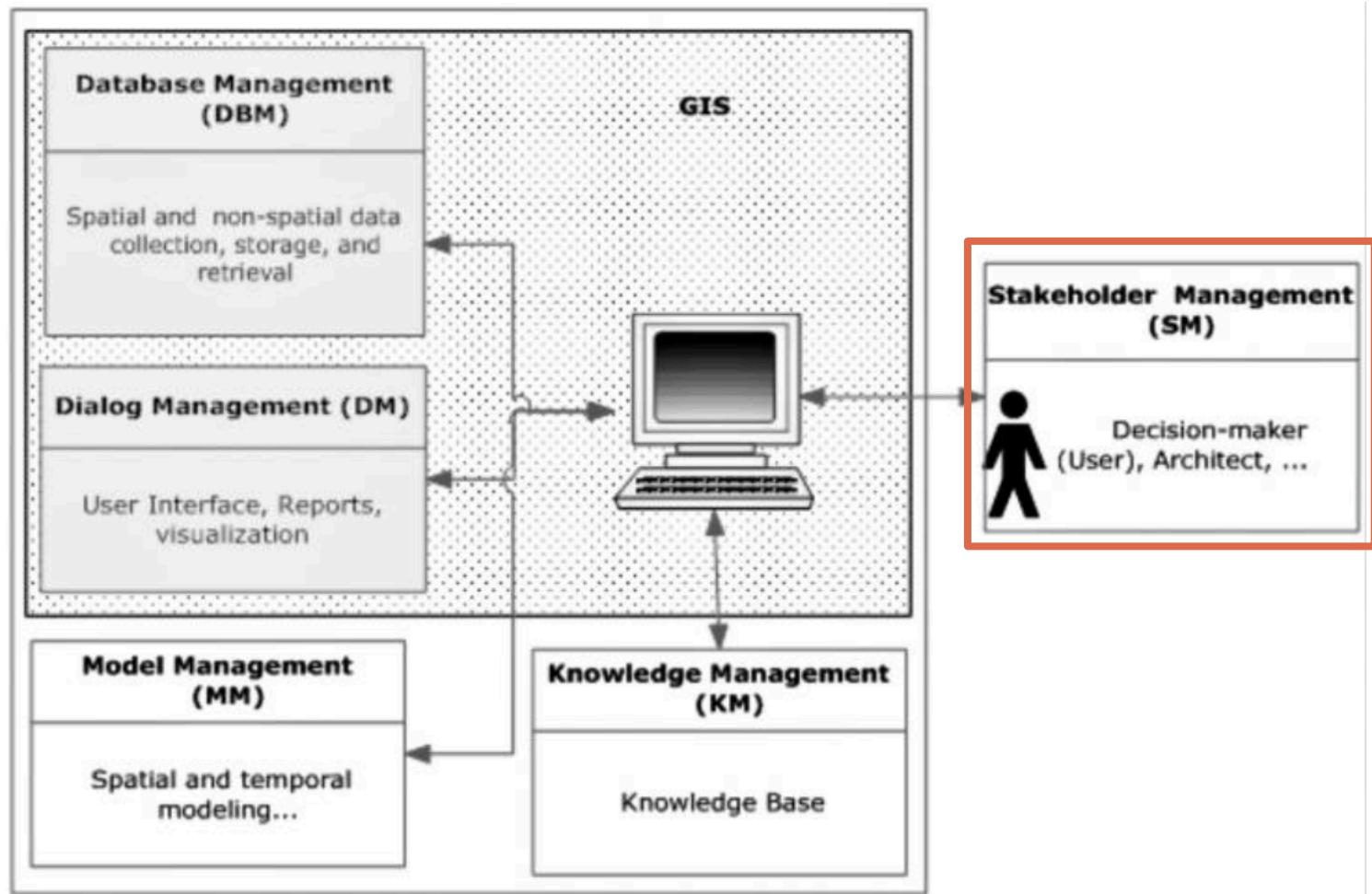
Develop the SDSS concept

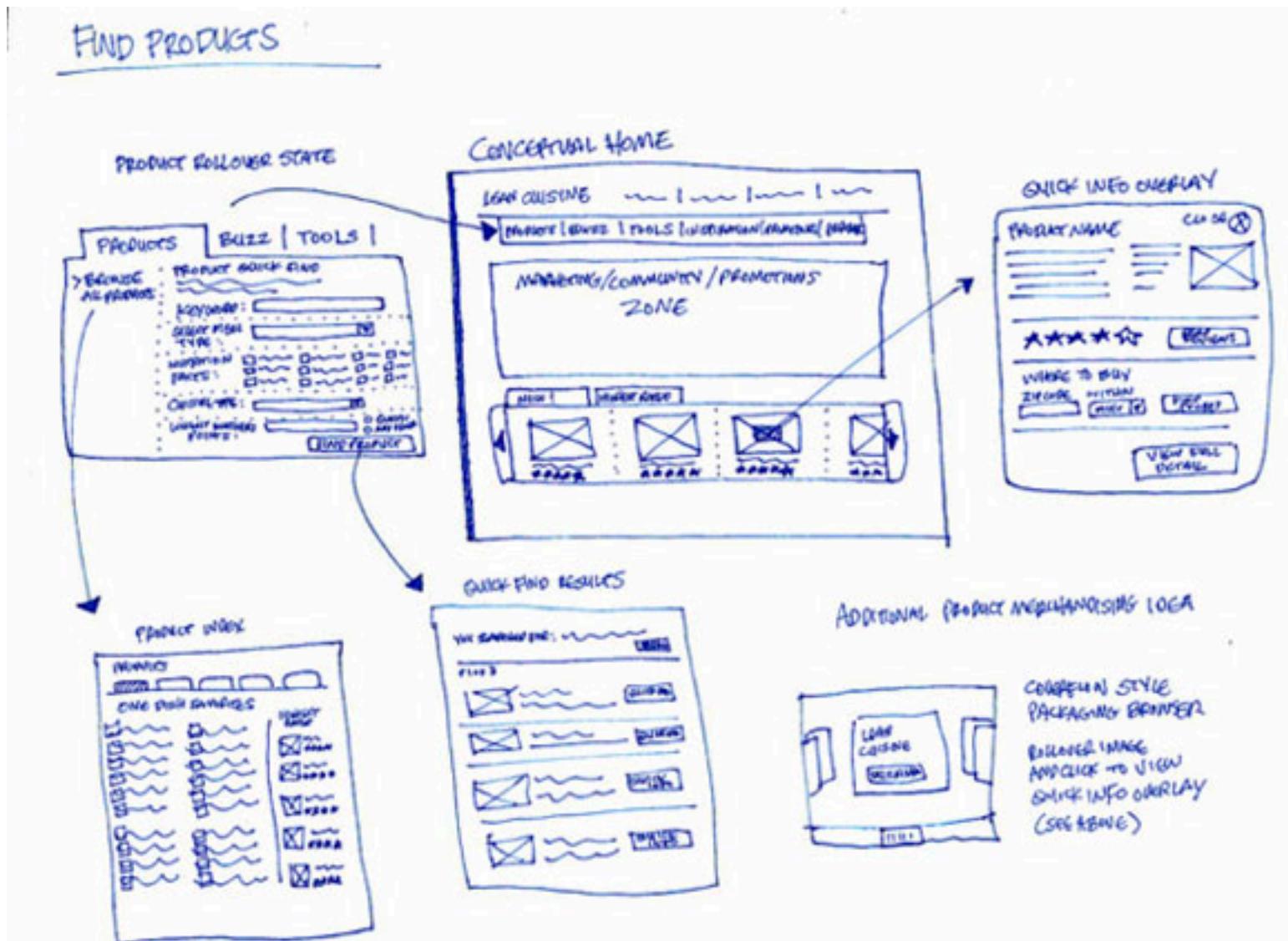
- Select one of the scenarios
- Select one user group
- Define one application/activity
- Develop a use case, tell a story for the actor
- Make diagrams of the user tasks flow
- Sketch the user interface

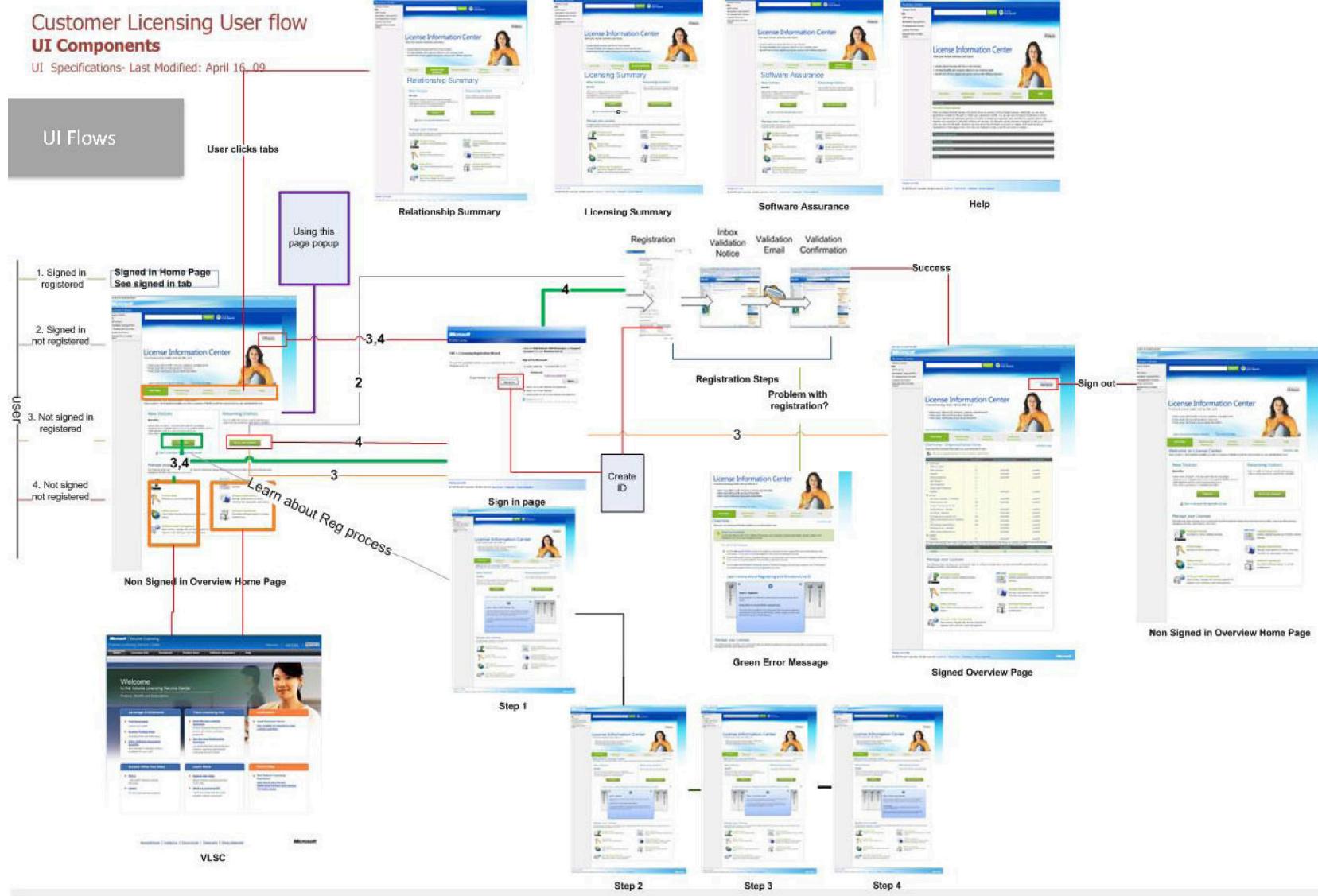


- Design the application screen for different tasks
- Design the user interface and its various states
- Illustrate the GUI:
 - Sketch
 - Wireframes
- Start implementing in QtDesigner

SDSS components







Qt Designer

Qt Designer

Object Inspector

Object	Class
SpatialDecisionDockWidgetBase	QDockWidget
dockWidgetContents	QWidget
label	QLabel

Widget Box

Filter

Layouts

- Vertical Layout
- Horizontal Layout
- Grid Layout
- Form Layout

Spacers

Horizontal Spacer

Vertical Spacer

Buttons

- Push Button
- Tool Button
- Radio Button
- Check Box
- Command Link Button

SDSS Template - spatial_decision_dockwidget_...

SDSS Template

Replace this QLabel with the desired plugin content.

Property Editor

Filter

SpatialDecisionDockWidgetBase : QDockWidget

Property	Value
QObject	
objectName	SpatialDecisi...
QWidget	
windowModality	NonModal
enabled	<input checked="" type="checkbox"/>
geometry	(0, 0, 398 x ...)
X	0
Y	0
Width	398
Height	426
sizePolicy	[Preferred, P...]
Horizontal Policy	Preferred
Vertical Policy	Preferred
Horizontal Stretch	0
Vertical Stretch	0
minimumSize	141 x 89
Width	141
Height	89
maximumSize	524287 x 52...
Width	524287
Height	524287
sizeIncrement	0 x 0

Resource Browser

Filter

<resource root>

Signal/Slot Editor

Resource Browser

The screenshot shows the Qt Designer interface with three main panels: Object Inspector, Property Editor, and Resource Browser. The Object Inspector lists objects and their classes. The Property Editor shows properties for a SpatialDecisionDockWidgetBase widget, including geometry, sizePolicy, and minimumSize. The Resource Browser shows a resource root. A central workspace displays a placeholder text 'Replace this QLabel with the desired plugin content.'

- Main: <http://doc.qt.io/qt-4.8/designer-manual.html>
- Overview: <http://doc.qt.io/qt-4.8/designer-to-know.html>
- Tutorial: <http://doc.qt.io/qt-4.8/designer-quick-start.html>
- Widgets: <http://doc.qt.io/qt-4.8/designer-widget-mode.html>

27th November – submitted as GitHub Wiki page(s)

Develop the SDSS **concept** for one **selected scenario**:

1. Select **one user group/role**, define one application;
2. Develop **one use case**, telling a story for the actor;
3. Describe what the SDSS does, focusing on the **user requirements**;
4. **Illustrate** the above with diagrams or flowcharts;
5. **Design the application** screens and interface (sketches, use examples);
6. Create a **mockup of the GUI** in QtDesigner.