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<!DOCTYPE aspect_oriented_model (View Source for full doctype...)>
- <aspect_oriented_model>
- <goal_model id="GM1" name="Manage [health service]">
  <softgoal id="G1" name="Make [health service] better"
    decomposition_label="and" />
  - <goal id="G2" name="Manage [health service]" decomposition_label="and">
    - <goal id="G3" name="Manage [complaints] and [notifications]"
      decomposition_label="and">
      - <task id="T3.1" name="Specify [complaint]"
        decomposition_label="and">
        - <task id="T3.1.1" name="Select [kind of complaint]"
          decomposition_label="and">
          <task id="T3.1.1.1" name="Select [diverse complaint]"
            decomposition_label="or" />
          <task id="T3.1.1.2" name="Select [food complaint]"
            decomposition_label="or" />
          <task id="T3.1.1.3" name="Select [animal complaint]"
            decomposition_label="or" />
          </task>
          <task id="T3.1.2" name="Register [kind], [date], [time] of the
            [complaint]" decomposition_label="and" />
          <task id="T3.1.3" name="Request [complaint information]"
            decomposition_label="and" />
          <task id="T3.1.4" name="Register [generic complaint
            information]" decomposition_label="and" />
          <task id="T3.1.5" name="Register [diverse complaint
            information]" decomposition_label="or" />
          <task id="T3.1.6" name="Register [food complaint
            information]" decomposition_label="or" />
          <task id="T3.1.7" name="Register [animal complaint
            information]" decomposition_label="or" />
          <task id="T3.1.8" name="Show [complaint code]"
            decomposition_label="and" />
          </task>
        - <task id="T3.2" name="Update [complaint]"
          decomposition_label="and">
          <task id="T3.2.1" name="Request [complaint code]"
            decomposition_label="and" />
          <task id="T3.2.2" name="Show [complaint information]"
            decomposition_label="and" />
          <task id="T3.2.3" name="Request [conclusion]"
            decomposition_label="and" />
          <task id="T3.2.4" name="Register [conclusion], [date] and
            [employee] who gave conclusion"
            decomposition_label="and" />
          </task>
        </goal>
      - <goal id="G4" name="Make [information on health service] available"
        decomposition_label="and">
        - <task id="T4.1" name="Register [tables]"
          decomposition_label="and">
          - <task id="T4.1.1" name="Register [health unit]"
            decomposition_label="and">
            <task id="T4.1.1.1" name="Register [unit code and unit
              description]" decomposition_label="and" />
            </task>
          </task>
        </goal>
      </goal>
    </goal>
  </softgoal>
</goal_model>

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- <task id="T4.1.2" name="Register [speacialty]"
  decomposition_label="and">
  <task id="T4.1.2.1" name="Register [code and description]"
    decomposition_label="and" />
  </task>
- <task id="T4.1.3" name="Register [employee]"
  decomposition_label="and">
  <task id="T4.1.3.1" name="Register [login, name and
    password]" decomposition_label="and" />
  </task>
- <task id="T4.1.4" name="Register [disease]"
  decomposition_label="and">
  <task id="T4.1.4.1" name="Register [code, name,
    description, symptom and duration]"
    decomposition_label="and" />
  </task>
- <task id="T4.1.5" name="Register [symptom]"
  decomposition_label="and">
  <task id="T4.1.5.1" name="Register [code and description]"
    decomposition_label="and" />
  </task>
</task>
- <task id="T4.2" name="Query [information]"
  decomposition_label="and">
  - <task id="T4.2.1" name="Query [health guide information]"
    decomposition_label="or">
    - <task id="T4.2.1.1" name="Query [health units] that take
      care of a specific [specialty]" decomposition_label="or">
      <task id="T4.2.1.1.1" name="Select [specialty]"
        decomposition_label="and" />
      </task>
    - <task id="T4.2.1.2" name="Query [specialties] of a [health
      unit]" decomposition_label="or">
      <task id="T4.2.1.2.1" name="Select [unit]"
        decomposition_label="and" />
      </task>
    - <task id="T4.2.2.2" name="Query [diseases]"
      decomposition_label="or">
      <task id="T4.2.2.2.1" name="Select [disease]"
        decomposition_label="and" />
      <task id="T4.2.2.2.2" name="Show [disease]"
        decomposition_label="and" />
      </task>
    </task>
  - <task id="T4.2.2" name="Query [complaints]"
    decomposition_label="or">
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    <task_ref id="T3.2.2" decomposition_label="and" />
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  </task>
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</goal>
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    <softgoal_ref id="G1" decomposition_label="and" />
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- <goal_model id="GM15" name="Persistence">
- <goal id="G15.1" name="Persistence" decomposition_label="and">
- <task id="T15.1.1" decomposition_label="and" name="Persistence in
  [DB]">
  <task id="T15.1.1.7" name="Persistence in [Microsoft Access]"
    decomposition_label="or" />
  <task id="T15.1.1.5" name="Persistence in [Oracle]"
    decomposition_label="or" />
  <task id="T15.1.1.6" name="Persistence in [MySQL]"
    decomposition_label="or" />
- <task id="T15.1.3" decomposition_label="and" name="Make register
  operation">
  <task id="T15.1.3.1" name="Insert [data]"
    decomposition_label="or" />
  <task id="T15.1.3.2" name="Search [data]"
    decomposition_label="or" />
  <task id="T15.1.3.3" name="Delete [data]"
    decomposition_label="or" />
  <task id="T15.1.3.4" name="Update [data]"
    decomposition_label="or" />
  <task id="T15.1.3.5" name="Print [data]"
    decomposition_label="or" />
  </task>
</task>
</goal>
- <crosscutting_relationship>
- <source>
  <task_ref id="T15.1.1" decomposition_label="and" />
</source>
- <pointcut id="P15.1" name="make register operation">
- <pointcut_expression>
- <operand primitive="include">
  <regular_expression text="Register.*" param="name"
    type="task" />
</operand>
<and />
- <pointcut_expression>
  <not />
- <operand primitive="include">
  <task_ref id="T4.1" decomposition_label="and" />
</operand>
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</pointcut>
- <pointcut id="P15.2" name="set DB">
- <pointcut_expression>
- <operand primitive="include">
  <softgoal_ref id="S3.2" decomposition_label="and" />
</operand>
</pointcut_expression>
</pointcut>
- <intertype_declaration type="element">

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- <a_it_expression>
  <pointcut_ref id="P15.2" />
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- <intertype_declaration_body>
  - <task id="T3.1.2.4" decomposition_label="make" name="Set
    [DB]">
    <task id="T3.1.2.10" name="Select [Microsoft Access]"
      decomposition_label="or" />
    <task id="T3.1.2.11" name="Select [Oracle]"
      decomposition_label="or" />
    <task id="T3.1.2.12" name="Select [MySQL]"
      decomposition_label="or" />
  </task>
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- <advice type="around">
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    <pointcut_ref id="P15.1" />
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  - <advice_body>
    <task_ref id="T15.1.3" decomposition_label="and" />
  </advice_body>
</advice>
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- <goal_model id="GM5" name="Error and Exception Handling">
  <softgoal id="S5.1" name="Error and Exception Handling"
    decomposition_label="and" />
  - <goal id="G5.2" name="Handling [exception]" decomposition_label="and">
    <task id="T5.2.1" decomposition_label="and" name="Detect
      [exception]" />
    <task id="T5.2.4" decomposition_label="and" name="Apply
      [handler]" />
  </goal>
- <crosscutting_relationship>
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  - <pointcut id="PC5.3" name="persistence">
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        <task_ref id="T15.1.1" decomposition_label="and" />
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    </pointcut_expression>
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  - <pointcut id="PC5.4" name="authentication">
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        <task_ref id="T9.3.3" decomposition_label="and" />
      </operand>
    </pointcut_expression>
  </pointcut>
  - <pointcut id="PC5.5" name="availability">
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      - <operand primitive="include">
        <softgoal_ref id="S9.3" decomposition_label="and" />
      </operand>
    </pointcut_expression>
  </pointcut>

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        </operand>
    </pointcut_expression>
</pointcut>
- <intertype_declaration type="element">
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    <pointcut_ref id="PC5.3" />
  </a_it_expression>
  - <intertype_declaration_body>
    <task id="T5.2.1.3" name="Detect [persistence exception]"
      decomposition_label="and" />
  </intertype_declaration_body>
</intertype_declaration>
- <intertype_declaration type="element">
  - <a_it_expression>
    <pointcut_ref id="PC5.4" />
  </a_it_expression>
  - <intertype_declaration_body>
    <task id="T5.2.1.1" name="Detect [authentication exception]"
      decomposition_label="and" />
  </intertype_declaration_body>
</intertype_declaration>
- <intertype_declaration type="element">
  - <a_it_expression>
    <pointcut_ref id="PC5.5" />
  </a_it_expression>
  - <intertype_declaration_body>
    <task id="T5.2.1.2" name="Detect [availability exception]"
      decomposition_label="and" />
  </intertype_declaration_body>
</intertype_declaration>
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- <correlation_relationship label="make">
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    <softgoal_ref id="S5.1" decomposition_label="and" />
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- <goal_model id="GM9" name="Security">
  - <softgoal id="S9.0" name="Security" decomposition_label="and">
    - <softgoal id="S9.3" name="Availability" decomposition_label="make">
      <goal id="G9.3.1" name="The system should be available 24 hours
        a day, 7 days a week." decomposition_label="and" />
      <goal id="G9.3.2" name="Because of the nature of not being a
        critical system, the system might stay off until any fault is
        fixed." decomposition_label="and" />
    </softgoal>
  </softgoal>
</goal_model>

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    </softgoal>
  </softgoal>
- <goal id="G9.3" name="Authentication" decomposition_label="and">
  <task id="T9.3.3" name="Authentication by Login"
    decomposition_label="and" />
  - <task id="T9.3.4" name="Validate [data]" decomposition_label="and">
    <task id="T9.3.4.2" name="Compare [data] with [credentials]"
      decomposition_label="and" />
  </task>
  - <goal id="G9.3.5" name="Authorization" decomposition_label="and">
    - <task id="T9.3.5.1" name="Control [access]"
      decomposition_label="and">
      <task id="T9.3.5.1.1" name="Restrict [access] to [functions]"
        decomposition_label="and" />
      <task id="T9.3.5.2.2" name="Restrict [access] to [data]"
        decomposition_label="and" />
    </task>
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- <crosscutting_relationship>
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  - <pointcut id="P9.3.1" name="authentication">
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      </operand>
      <and />
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        <task_ref id="T4.1" decomposition_label="and" />
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    - <advice_body>
      <task_ref id="T9.3.3" decomposition_label="and" />
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- <goal id="G9.2" name="Encryption" decomposition_label="and">
  <task id="T9.2.3" name="Encryption Algorithm"
    decomposition_label="and" />
  - <task id="T9.2.5" name="Make [Encryption operations]"
    decomposition_label="and">

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    <task id="T9.2.1" name="Encrypt [data]"
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    <task id="T9.2.2" name="Decrypt [data]"
      decomposition_label="and" />
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- <crosscutting_relationship>
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    <goal_ref id="G9.2" decomposition_label="and" />
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        <task_ref id="T9.3.3" decomposition_label="and" />
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- <goal_model id="GM10" name="Performance">
  <softgoal id="S10.1" name="Performance" decomposition_label="and" />
  <goal id="G10.1" name="Response time must not exceed 5 seconds"
    decomposition_label="and" />
  <goal id="G10.2" name="Capability to handle 20 simultaneous users"
    decomposition_label="and" />
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- <goal_model id="GM3" name="Usability">
  - <softgoal id="S3.1" name="Usability" decomposition_label="and">
    - <softgoal id="S3.1.1" decomposition_label="make" name="Usability
      [documentation]">
      <softgoal id="S3.1.1.2" decomposition_label="make" name="Usability
        [help] available on user interface" />
    </softgoal>
    - <softgoal id="S3.1.2" decomposition_label="make" name="Usability
      [user interface]">
      - <softgoal id="S3.1.2.7" decomposition_label="help"
        name="Accessibility">
        <task id="T3.1.2.2" decomposition_label="make" name="Use
          [servlets]" />
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  - <softgoal id="S3.2" decomposition_label="make" name="Configurability">
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</aspect_oriented_model>

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