Discover Classes

- The high-level problem statement
- Lower-level requirements
- Expert knowledge of the problem space
- Use cases if already present

Discover Classes

Grammatical Inspection

**Noun**: a word that names or denotes something.
E.g.: **Fisher** doesn’t know which **river** to choose….

**Nouns become objects**

Fisher  
River

**Noun Phrases**:
E.g.: Fisher selects a **seasonal fishing license**…

**Nouns Phrases become attributes**

FishingLicense
  cardType: String
### Operations and Associations

#### Grammatical Inspection

**Verbs:**
- E.g.: He uses the localisation service **to find** the closest hotel.

<table>
<thead>
<tr>
<th>Locator</th>
</tr>
</thead>
<tbody>
<tr>
<td>getClosestHotel()</td>
</tr>
</tbody>
</table>

**Verb Phrases:**
- E.g.: The user **can use** different devices ...

<table>
<thead>
<tr>
<th>EndUser</th>
<th>Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>uses</td>
<td></td>
</tr>
</tbody>
</table>

**Verbs become operations**

**Verb Phrases become associations**

### Attributes Rather Than Objects

**Possessive Phrases:**
- E.g.: A fishing card **has a limited duration**...

**Possessive Phrases indicate that nouns should be attributes rather than objects**

<table>
<thead>
<tr>
<th>FishingCard</th>
</tr>
</thead>
<tbody>
<tr>
<td>duration</td>
</tr>
</tbody>
</table>