

## Display-Action-Response Model for User Interface Requirements

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## Typical UI Requirements

### Requirements Document

- System shall have fields for first name, middle initial and last name.
- System shall display a name if there is one in the stored profile.
- System shall require name is completed.
- System shall have a field for position or title.
- System shall require title is completed.
- System shall display a position or title if there is one in the stored profile.
- System shall have fields for email and alternate email addresses.
- System shall display an email address if there is one in the stored profile.
- System shall require email and alternate email addresses are completed.
- System shall have a field for a daytime phone number.
- System shall display a phone number if there is one in the stored profile.
- System shall require phone number is completed.
- System shall validate the phone number is all digits when user exits the field.
- System shall display an error message if phone number is not all digits.
- System shall have a field for a fax number.
- System shall require fax is completed.
- System shall display a fax number if there is one in the stored profile.
- System shall validate the fax number is all digits when user exits the field.
- System shall display an error message if the fax number field is not all digits.
- System shall have two fields for a street address.
- System shall require the first street address field is completed.
- System shall display an address if there is one in the stored profile.
- System shall have a field for city.
- System shall require the city field is completed.
- System shall display a city if there is one in the stored profile.
- System shall have a field for state.
- System shall require the state field is completed.
- System shall have a field for zip code.
- System shall require the zip code if there is one in the stored profile.
- System shall require the zip code field is completed.
- System shall look up zip code in the list of zip codes that open counties and display a county selection if it does open counties.
- System shall have a submit option.
- System shall save contact information updates in the order when the submit option is selected.
- System shall validate required fields are completed when the submit is selected.
- System shall display an error message when required fields are not completed.
- System shall give the option to receive a confirmation email.

## Display-Action-Response Model

Screen shot or wireframe

## Display-Action-Response Model

Element Table

| UI Element             | Zip Code               | Text Field             |
|------------------------|------------------------|------------------------|
| UI Element Description | UI Element Description | UI Element Description |
| UI Element Displays    | UI Element Displays    | UI Element Displays    |
| UI Element Behaviors   | UI Element Behaviors   | UI Element Behaviors   |

## Case Study


- Case Study:
  - Merging software applications
  - Introducing new features
  - Applying new UI
- The DAR model in the overall approach:

## What We Learned

- Strengths
  - Easy to use
  - Structured details
  - Bounded scope
  - Works with low-fidelity UI representations
- Challenges
  - Not for back-end or middleware systems
  - Not for overall UI flow
  - Time-consuming perception
  - Often cut from scope
  - UI representations are required

**Seilevel**  
requirements defined

## Future Work



- Automation Tools
- System Quality
- Software Development Life Cycle

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requirements defined

## Questions?

- Further reading
  - <http://www.seilevel.com/blog>
- Further discussions
  - <http://www.requirementsexperience.com>
  - Contact us at [joy.beatty@seilevel.com](mailto:joy.beatty@seilevel.com) and [mike.alexander@seilevel.com](mailto:mike.alexander@seilevel.com)