Team Si(Silicon)

Benjamin Olson

Victor Shaw

Jorge Alvarez

Anna Waldron

**Scenario 3: Rainbow Fish Website**

Your friends ask you to develop a website for their business during dinner at their new restaurant. The website should include common advertising information like special events, hours, locations, and menu. At some point in the future, they would like to include an ability to make reservations, show daily specials, and take carryout orders on-line. The owners want to trade you free dinners for your development work.

3) The interview requirement elicitation technique would be the most effective for this scenario. There are only a few parties involved in making requirements which makes an interview an efficient way of getting the requirements they have for their website. Due to the close nature of the interview technique, the fact that the owners and the developer are friends will allow for an easier discussion that can list out the requirements faster. This also allows us to get an overall understanding of the requirements quicker than other elicitation techniques. In code and fix, we do not need an extensive plan to start coding a website.

4) Epics and user stories (5 epics with 2 user stories each)

1. **As a customer, I want to create a reservation so that I can have a table when I come to the restaurant.** 
   1. As a customer, I want to be able to get a confirmation text so that I know I have a table.
   2. As a customer, I want to be able to cancel a reservation online so that they can serve other customers.
2. **As a customer, I want to order carryout online so I don’t have to sit at the restaurant.** 
   1. As a customer, I want to be able to easily interact with the ordering menu online so that I spend the least amount of time possible ordering.
   2. As a customer, I want to receive a confirmation email detailing my order so I have a receipt if my order is wrong.
3. **As a customer, I would like to be able to see the menu and daily specials online so that I know the specials before going to the restaurant.** 
   1. As a customer, I would like to see the price and description of the menu and daily specials before going.
   2. As a customer, I would like to be able to see pictures of the menu and daily specials before going to the restaurant so that I can see what the food looks like.
4. **As an employee, I would like to interact with the daily specials so that I can change it every night.** 
   1. As a manager/owner, I would like to update the prices of the daily specials so that the menu and online prices match.
   2. As a chef, I would like to update the daily specials with a new description and photo so that the customers can see the daily items.
5. **As a customer, I want to know the restaurant’s advertising information so I don’t waste time looking for it and showing up when it is closed.**
   1. As a customer, I want to see an address and map location extension that I can click on to find the restaurant.
   2. As a customer, I want to know the restaurant’s opening and closing time so that I can go when it's open.

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| Num. | User Story (Front of Card) | Confirmations (Back of card) |
| 1a | 101  As a customer, I want to be able to get a confirmation text or email so that I know I have a table  Priority: Medium-High Estimate: 5 | The user will receive a receipt after their reservation creation  The user must give a name to be issued a reservation  The user will not receive a confirmation if they don’t put in their information |
| 1b | 102  As a customer, I want to be able to cancel a reservation online so that they can serve other customers.  Priority: Medium-High Estimate: 5 | Reservations will be parameterized to only allow one reservation at a time-dependent on the customers email and phone number.  One reservation must be canceled before creating a new one before the reservation time  The customer must have a valid email address and phone number  The reservation date can not be a past date or time. |
| 2a | 103  As a customer, I want to be able to easily interact with the ordering menu online so that I spend the least amount of time possible ordering.  Priority: Medium-Low Estimate: 3 | Using cookies to have revisit information on the user based on email account creation that suggests previous items or commonly ordered items for easy checkout.   The person ordering online must have a valid phone number and email address  The person cannot place more than 5 carry out orders in the same hours. |
| 2b | 104  As a customer, I want to receive a confirmation email or text detailing my order so I have a receipt if my order is wrong.  Priority: Medium-High Estimate: 5 | An email and phone number will be required to place a carryout order so a receipt can be sent.  Invalid emails and phone number will be caught and return an error, not allowing an order to be placed. |
| 3a | 105  As a customer, I would like to see the price and description of the menu and daily specials before going.  Priority: High Estimate: 6 | Each menu item has one description and one price  No elements should overlap  The user can access and close the price and description. |
| 3b | 106  As a customer, I would like to be able to see pictures of the food before going to the restaurant so that I can see what the food looks like.  Priority: Medium Estimate: 4 | Photos should all be in one consistent resolution  Photos should not overlap with any other elements  The user can access and close the photo |
| 4a | 107  As a manager/owner, I would like to update the prices of the daily specials so that the menu and online prices match.  Priority: High  Estimate: 6 | Invalid inputs are caught (negative values, values over $100)  1 picture and description per food item  The managers can only update the daily specials.  The owners can update the daily specials and menu. |
| 4b | 108  As a chef, I would like to update the daily specials with a new description and photo so that the customers can see the daily items.  Priority: High Estimate: 6 | An invalid photo or description input will be caught (blank description, photo dimensions do not fit)  Any duplicate specials should show a warning before being published |
| 5a | 109  As a customer, I want to see an address and map location extension that I can click on to find the restaurant.  Priority: Medium-Low Estimate: 3 | The user should be able to click on the extension and have it open their google-maps app if they have it downloaded  The map should show the user’s location if their device allows for it |
| 5b | 110  As a customer, I want to know the restaurant’s opening and closing time so that I can go when it's open.  Priority: Medium-Low Estimate: 3 | The first time shown should always be based on the current day and time.  Any days the store is closed should be shown separately but in close proximity. |

5) Non-functional requirements

1. **Usability**: we want to ensure that the website is user-friendly and easy to navigate. A way to test this in the informal setting we’re in would be to see if our grandparents or parents can use the websites. Any issues they have should be addressed. Users want to quickly access the menu and other details about the restaurant without wasting time. Using larger fonts and quick access interface can make the website more accessible and easy to use.
2. **Correctness**: through extensive testing, we want to ensure that the website meets all of the functional requirements. Each user story should be met and tested extensively. The website will be read through for spelling and grammatical errors, as well as checking that each link and drop-down menu bar works.
3. **Portability**: we want to ensure that the website is accessible and looks appealing on many different platforms (Windows, Mac, Linux, Android, ios). There shouldn’t be any elements covering each other and text fonts should all be readable on all platforms. The website should change its display ratio depending on the device being used.