

PROGRAMMING STUDIO 1: WEBSITE PRESENTATION

Group 62

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The background of the image is a blurred photograph of several wooden chess pieces, including pawns and a king, arranged on a light-colored surface. The pieces are out of focus, creating a soft, bokeh effect. Overlaid on this background is a semi-transparent dark grey rectangle that serves as a backdrop for the text.

EXPLORE THE INTENDED
USERS:

DYLAN

Description:

Dylan is a middle-aged man (in his thirties), he lives in a gated suburb. He currently works in marketing selling produce to a global food chain suppliers. Looking to help his son with his primary school project on homelessness using the website and their respected services given.

Needs and Goals:

- Quick and easy information to data
- Easy accessibility to information and filters
- The data articulated such in a way that is readable and understandable
- Website has stories from first persona counts –
-

Skills and Experience:

- Well Versed in current technology
- Understandable and competent under pressure of - multitude of filters or process at one time
- Calm and Collected
- Works with Complicated IT Systems regularly



DYLAN CONTEXT SCENARIO

Dylan's Kid "Nathan" in primary school has been assigned a project for his final grade of that a research poster on Homelessness. Nathan has asked if Dylan could complete the project for him and agrees. Dylan reading the specifications of the project has noticed that he needs to get specific data to fit the data requirements given to him in which are to find the count of Homeless within Sydney that are 10-20 years old. and then having to put the data and paste it onto the sheet of poster paper giving it to him the next day for school .

Three of the specifications/task for Nathans Project was to find:

- 1) The Amount of homeless & At-risk individuals aged 40-49 living in Sydney.
- 2) The Count of At-risk individuals living in NSW
- 3) The LGA code of SYDNEY, and Population of Sydney

JOANNA

Description:

Joanna is a lower-class middle-aged woman who has been living off her pension due to a workplace environment and Currently at risk of being homeless with her three kids.

Needs & Goals:

- Quick Support
- Affordable Living
- To Make sure that her three kids will be taken care of.
- Easy and relevant support to her situation
- To Earn the minimum living to support her family
- To help others in need in any way that she can to help
- To be able to understand the resources that she has been given

Skills:

- Understanding of technology
- Empathetic
- Strong minded
- Great friend group



JOANNA CONTEXT SCENARIO

After a devastating workplace incident at a Car Rental Company Joanna has lost all function of both feet and hasn't been able to work since or find other jobs due to her disability.

Since the accident Joanna has had a hard time on getting information on how to get help with her disability and at risk of homelessness.

Joanna's friend Naomi sends her a site "Local: Host/7001" saying there's help for those at risk of homelessness. Joanna wanting to find information on the use and functions of the form. And how the form could be used to help her needs and goals.

WEBSITE JUSTIFICATION.

- Satisfies the requirements of Levels 1, 2, 3, and 4?
- How does the website satisfy the needs & goals of the Personas.
- How does the website enable the Context Scenarios of the Personas.

To answer these questions, We will go through each webpage of and how each explores these options



HomePage



Fig 1.1, “Homepage”

Mission Statement

Day by day, the counts of the homeless in Australia increase. The economy marginally suffers, and more importantly, the pressure under which the people condition becomes more and more severe. Our Mission is to create a space where anyone, be it a casual searcher or an expert, could obtain information about an ongoing problem, and have the ability to offer help towards the resolution of the problem. We give ways of search to obtain accurate info and created a space where you could make a donation, or note yourself to us, for which we could aid you. Please Scroll Down for information about intended users.

Intended Users



Dylan is a middle-aged Man (in his thirties), in a gated suburb. He currently works in marketing Selling Produce to Global Food Market Chains. Looking to help his son with his primary school project on homelessness using the website and their respected services given



Joanna is a lower-class middle-aged woman who has been living off her pension due to a workplace environment and Currently at risk of being homeless with her three kids.

Fig 1.2, "Mission Statement"

LEVEL 1 JUSTIFICATION

- Introduces the 3 facts Given via Carousel, Presents the Intended Users along with the mission statement and the group name and Project Creator names at the bottom
- Fulfills the needs and wants of Joanna and enables her Context Scenario:
 - Presents Joanna with information at the beginning of the site
 - Presents Joanna with information of the mission statement of how the website may be used.
 - Fufills Joanna Goal of getting help and information of how the website can be used.



LEVEL 2 JUSTIFICATION

The Simple Data allows the user to be able to select from a few select filters and get a Count back from those filters (filters included from specifications

Through LGA selection users can find general information of that LGA. Such as Population, Land Area and LGA specific Code of the area

Fulfills the needs and wants of Dylan & Joanna and enables Dylan's Context Scenario:

- Presents Joanna with filters to help find the answer to his son School project.
- Using the various filters allows Dylan to fulfill the goal of finding the total count of homeless in NSW aged 10-19.
- Quick and Easy Data fulfills one of Dylan's needs of the same nature
- Description of the site serves the need of Joanna of understanding each page and the site in total

The screenshot shows a web application titled 'Simple Data' with a dark header containing navigation links: 'Homepage', 'Our Mission', 'Simple Data', 'Advanced Data', and 'User Form'. The main content area is divided into two columns. The left column, titled 'Page Description', contains a welcome message and a series of filters: state (NSW, VIC, QLD, SA, WA, TAS, NT, ACT), homelessness status (Homeless, At Risk), gender (Male, Female), age groups (0-9, 10-19, 20-29, 30-39, 40-49, 50-59, 60+), and a dropdown for 'Select the LGA:'. A 'Search' button is at the bottom of the filters. The right column, titled 'Resulting Query', displays the results: 'Count of homeless under categories: 803' and 'Bathurst Regional General Facts: Area (km^2): 3817.8646, Population: 41299, Lga code of the Area is: 10470'. A footer at the bottom reads 'COSC2803 - Studio Project- s3895754 Nathan & s3890406 Jabbar/G62'.

Fig 1.3, “Simple Data”

LEVEL 3

- Using the same but filters from simple data the advanced data page implements the use of tables to get more specific and quality data along with being able to search up individual LGA's

[Homepage](#) [Our Mission](#) [Simple Data](#) [Advanced Data](#) [User form](#)

Advanced Data

Page Description

Welcome to the Advanced Data Page! On this Page you can interact with various filters to get a count of Homeless / At Risk Individuals on a spreadsheet of columns within a Table. .

NSW ☐ VIC ☐ QLD ☐ SA ☐ WA ☐ TAS ☐ NT ☐ ACT ☐

Homeless ☐ AtRisk ☐

Male ☐ Female ☐

0-9 ☐ 10-19 ☐ 20-29 ☐ 30-39 ☐ 40-49 ☐ 50-59 ☐ 60+ ☐

Pick an option to Sort the table: Please select this before the search

Lga_name	Lga_num	Status	Sex	AgeGroup	Homeless Count
Greater Geelong	22750	at_risk	m	_20_29	269
Brisbane	31000	homeless	m	_20_29	228
Melbourne	24600	homeless	m	_20_29	188
Latrobe (Vic.)	23810	homeless	m	_20_29	156
Greater Dandenong	22670	homeless	m	20_29	150

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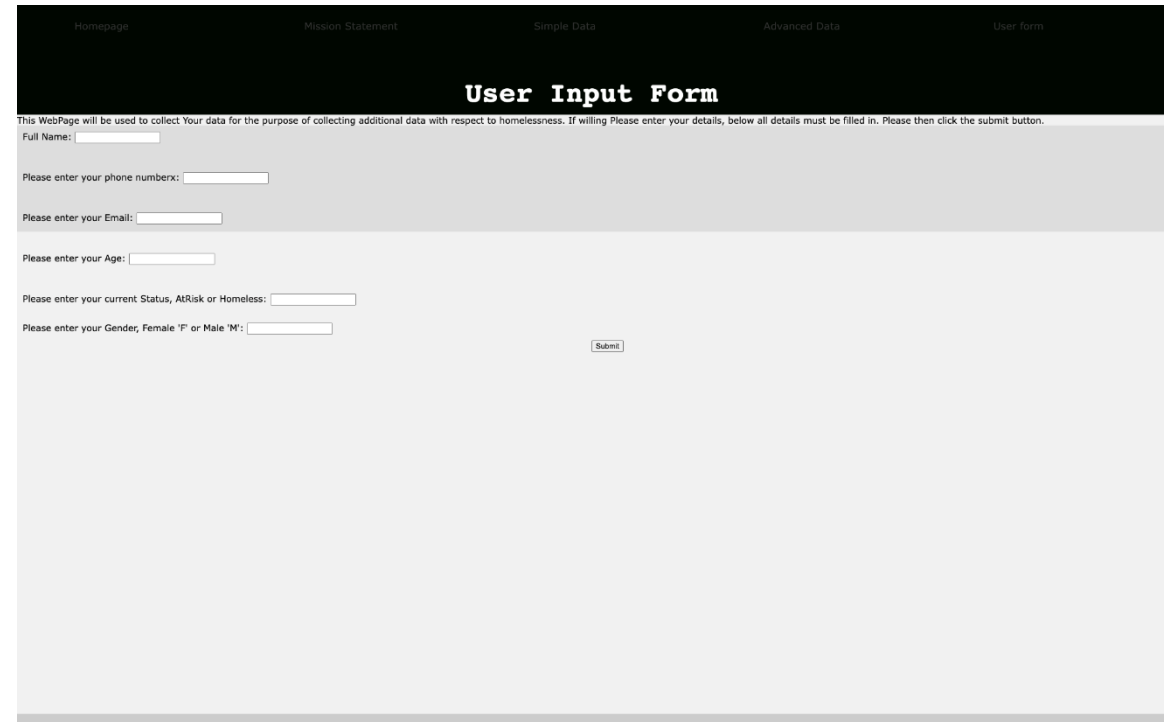
Fig 1.4,
Advanced Data

Fulfills the needs and wants of Dylan and enables her Context Scenario:

- fulfills Dylan Context Scenario and needs that he can find more accurate data on certain regions of NSW
- Quick and Easy Data fulfills one of Dylan's needs of the same nature

LEVEL 4: EXTENSION TASK

- Extension task chosen was USER INPUT FORM
- Takes User input from various filters as can be seen from fig 1.5, where data is validated on submit
- After users has pressed the submit button Values are inputted into the Database relations
 - Presents Joanna with information relevant to the page at the top of the site
 - Presents Joanna with the option of submitting her Data Coinciding with her Goal and Context Scenario of aiming to help others in similar situations
 - Fulfills Joanna Goal of getting help and information of how the website can be used.



The screenshot displays a web application interface with a dark blue header containing navigation links: Homepage, Mission Statement, Simple Data, Advanced Data, and User form. The main content area has a light blue background and is titled "User Input Form" in bold. Below the title, a paragraph states: "This WebPage will be used to collect Your data for the purpose of collecting additional data with respect to homelessness. If willing Please enter your details, below all details must be filled in. Please then click the submit button." The form includes several input fields: "Full Name:", "Please enter your phone number:", "Please enter your Email:", "Please enter your Age:", "Please enter your current Status, AtRisk or Homeless:", and "Please enter your Gender, Female 'F' or Male 'M':". A "Submit" button is located at the bottom right of the form.

Fig 1.5, User Input Form

HOW THE UX & UI OF YOUR WEB APP SATISFIES CRITERIA?

Satisfies Nielsen design heuristics, including justifying any trade-offs made that you made in satisfying the design heuristics.

Makes use of common design patterns, including but not limited to Navigation, Page Layout and Interaction.



NAVIGATION DESIGN PATTERN

what Navigations pattern were implemented:

- The main use of navigation Design patterns that were used was that of Fully Connected. We wanted every page of the site to be connected to each other by means of Top Nav so that the User wouldn't be lost and always be able to find their way back to a familiar we page.

These patterns can be seen in figures 1.1 – 1.5 shown throughout this Presentation.

PAGE LAYOUT DESIGN PATTERN & DESIGN HEURISTICS

What Design Patterns were used:

- Visual Flow
- Aesthetic and minimalistic design
- Consistency and stay to standards

WHAT WAS CHANGED AFTER USABILITY TESTING



Home
-button

zzz

zzz

zzz

side bar

zzz

zzz

Help -
button

Advanced LGA SEARCH - TITLE

Sub
Heading
How to use

Directions on how to
Use the webpage -
paragraph

LGA FIELD SEARCH
BAR - Drop down box



ADVANCED
SETTINGS - drop
down



Proportional
Drop Down



Range: Age
DropDown



Search Button

LGA DATA QUERY
Result Field - title

Iga basic
Information
text

LGA Raw total Values
text Box

Resulted
Information
From filters
chosen - text
box

Download Data Report-
button

WHAT WAS CHANGED AFTER USABILITY TESTING?

In terms of functionality: during the testing our functionality was limited and not fully implemented thus because of that we had no real relevant data towards level 3.

But we added to the LGA General facts and such as dynamically changing the text of the LGA Facts result of level 2 depending on what LGA had been picked

In Terms of Design UI/UX: in reference with fig 1.6, was the design of level at time of testing and realized that although we wanted to stay to heuristics of consistency and standard we had to sacrifice for a more spacious and accessible webpage

In terms of ER design however, it has changed as it lacked the necessary data to uphold the structure. Has been mainly cleared out of empty sets

STUDENTS
name_surname
age
gender
id
email

CONTRIBUTORS
name_surname
age
gender
email
phone
tot_donation

COUNTRIES
<u>LGA_code</u>
<u>LGA_name</u>
continent

HOMELESS_DATA
<u>LGA_code*</u>
year1
year2
.
.
yearN
curr_hmls (0-9)
curr_hmls_risk (0-9)
curr_hmls (10-19)
curr_hmls_risk (10-19)
curr_hmls (20-29)
curr_hmls_risk (20-29)
curr_hmls (30-39)
curr_hmls_risk (30-39)
curr_hmls (40-49)
curr_hmls_risk (40-49)
curr_hmls (50-59)
curr_hmls_risk (50-59)
curr_hmls (60+)
curr_hmls_risk (60+)
curr_hmls (unk)
curr_hmls_risk (unk)

HOMELESS_USERS
<u>LGA_code*</u>
name_surname
age
gender
email
phone
income

INCOME
<u>LGA_code*</u>
year1
year2
.
.
yearN
med_hh_weekly
med_age
med_mort_repay_monthly

LGAS
<u>LGA_code</u>
<u>LGA_name</u>
type
area
latitude
longitude

POPULATION
<u>LGA_code*</u>
year1
year2
.
.
yearN

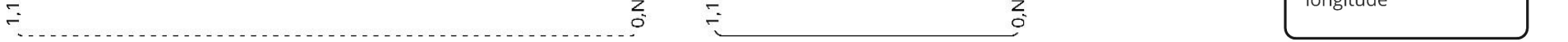
HOMELESS_DATA
<u>LGA_code*</u>
year
stat
curr_hmls (0-9)
curr_hmls (10-19)
curr_hmls (20-29)
curr_hmls (30-39)
curr_hmls (40-49)
curr_hmls (50-59)
curr_hmls (60+)
curr_hmls (unk)
curr_hmls_risk (unk)

LGAS
<u>LGA_code</u>
<u>LGA_name</u>
type
area
latitude
longitude

HOMELESS_USERS
fname
age
gender
email
phone
stat

CONTRIBUTORS
name_surname
age
gender
email
phone
tot_donation

STUDENTS
name_surname
age
gender
id
email



DEMONSTRATION WILL START NOW