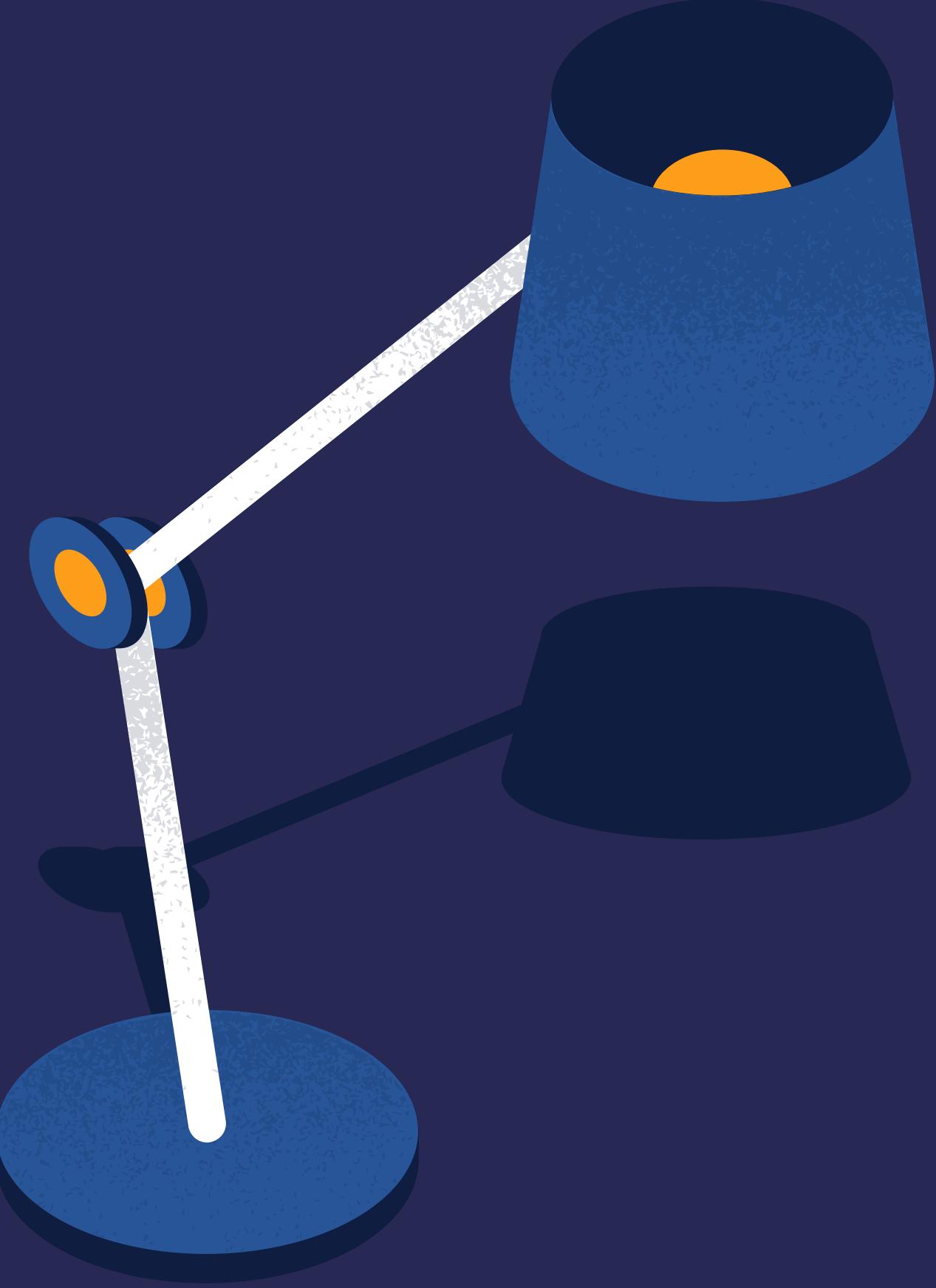


Comp90082 Software Project

NDIS Positive Behaviour support

—Group RedBack





Team member

Database: Donghui Guo
Xuande Li
Ruize Fu

Data extraction: Jiyuan Wang
Aijia Gong



Background

- To provide support to people with disabilities, NDIS Behavior Support Practitioners developed written plans in a document and uploaded them to the NDIS Board Portal using the professional behavior support providers' own templates.
- The purpose of the project was to provide a training system for NDIS practitioners to develop good support plans for participants.

Project Requirements

1. Create a ‘standalone’ system that can receive a BSP pdf document.
2. Extract information from the document with appropriate data structures and saved it into the database.
3. Design database API to access the database for the NLP process
4. Scores and feedback can be stored in the structured database.



PERSONA

PROJECT: untitled PERSONA: Johnny Rivera



NAME
Johnny Rivera

TYPE
Rational

Motto
“Real living is living for others”

Demographic

- Male 35 years
- United States
- Married
- NDIS Service Provider
- \$5000 per month

Skills

Communicating	<div style="width: 75%;"></div>
Planning	<div style="width: 75%;"></div>
Organising	<div style="width: 75%;"></div>

Background

After graduating from the University of Chicago majoring in nursing, Johnny joined the NDIS as a service provider. Growing up with his sister who had been suffering from learning disability, he was able to deeply appreciate the great inconvenience this disorder brought to daily life and interpersonal communication. Therefore, in his career plan, he chose to help others suffering from the same disease and strive for it.

Goals

- Get training courses on creating positive behavior support plans
- Create appropriate plans for the participants of NDIS after the training

Motivations

- To help people with different kinds of disability
- To obtain the gratification of helping others

Frustrations

- Unfamiliar with the training platform
- Still not able to generate reasonable plans after the training

Market Size
5 %

PROJECT: untitled PERSONA: Jack Smith, 23, VIC



NAME
Jack Smith, 23, VIC

TYPE
Rational

Background

Jack is a college student, currently studying Natural language processing. He is good at using python, java. Jack also has some large group development experience. Jack usually can come up a creative idea when developing a module or software. However, He is not so good at communication, sometimes he handled a lot work on his own rather than cooperate with his teammate. But he always treat his work really carefully.

For this project, Jack is quite willing to help people who have some disability in their real life. He wants the information can be helpful for his further design and help those people to have a better experience on NDIS. He also hopes to use the data obtained to build models to guide the future of the NDIS.

Demographic

- Male 23 years
- Melbourne, VIC
- Single
- Student
- Backend developer

Personality

Introvert	Extrovert
Thinking	Feeling
Sensing	Intuition
Judging	Perceiving

Motivations

efficiency	<div style="width: 75%;"></div>
Accuracy	<div style="width: 75%;"></div>
Growth	<div style="width: 75%;"></div>

Frustrations

- Could not extract file information correctly
- The extracted information is stored in the wrong location
- The extracted information is not accurate enough
- Bad data can lead to model failure
- Too little data may lead to model under-fitting, otherwise it will lead to overfitting

Market Size
5 %

USER STORY

ID	User	User Story	MoSCoW Priority
1	Data Scientist	As a data scientist, I want to obtain information of BSP so that I can process the data and give feedback.	Must Have
2	Data Scientist	As a data scientist, I want to get access to the collected information easily so that I can preprocess data as soon as possible.	Should Have
3	Service Provider Practitioner	As a service provider practitioner, I want to submit the behaviour support plan through Canvas easily.	Could Have
4	Service Provider Practitioner	As a service provider practitioner, I want to receive feedback from the system so that I can improve my behavior support plan based on the feedback.	Won't Have This Time
5	Service Provider Practitioner	As a service provider practitioner, I want the website can process my behavior support plans efficiently so that I can get feedback in a short period and correct my plan early.	Should Have
6	Service Provider Practitioner	As a service provider practitioner, I want to submit the BSP concurrently with other staff so that I can shorten the time for waiting online.	Should Have
7	Service Provider Practitioner	As a service provider practitioner, I want my submitted BSP secured so that the personal information of participants and staff will be protected.	Could Have



ARCHITECTURE

DESIGN

- First we need to get the files sent by other devices to the local server.
- Next we pass the extracted content to the database section. The database sorts and organizes the extracted data.



TECHNOLOGY

Third party library

mySQL

flask

postman

TECHNOLOGY



Camelot:
Form information extraction
MySQL:
Relational Database



Flask:
extensibility and
compatibility



Postman:
API development
collaboration tool

DEMONSTRATION



TEST EXAMPLE

1 Provide a short summary about the person with disability who is the focus of the PBSP': 'Taylor is an energetic and outdoor loving 23 year old. He is very proud of his back yard and once he gets to know a person, will invite them over to see his lawn and garden. Taylor has lived in supported accommodation since he was 21 years old. Taylor likes to get to know people before they come to his home. Taylor likes spending time with others that can keep up with him and like spending time outside. Taylor enjoys having a big glass of cold water with ice after his outside activities. Taylor lives with two other gentlemen who are significantly older than Taylor and who prefer to be inside rather than outside. Taylor does not seem to think being inside is much fun. Taylor's mother passed away when he was 21 and his father suffered a stroke shortly after the passing of his mother, at which time Taylor entered supported accommodation. Taylor has two older brothers [Tim and Jason] who take turns visiting Taylor once a month on a Saturday.

1 Provide a short summary about the person with disability who is the focus of the PBSP: Taylor is an energetic and outdoor loving 23 year old. He is very proud of his back yard and once he gets to know a person, will invite them over to see his lawn and garden. Taylor has lived in supported accommodation since he was 21 years old. Taylor likes to get to know people before they come to his home. Taylor likes spending time with others that can keep up with him and like spending time outside. Taylor enjoys having a big glass of cold water with ice after his outside activities. Taylor lives with two other gentlemen who are significantly older than Taylor and who prefer to be inside rather than outside. Taylor does not seem to think being inside is much fun. Taylor's mother passed away when he was 21 and his father suffered a stroke shortly after the passing of his mother, at which time Taylor entered supported accommodation. Taylor has two older brothers [Tim and Jason] who take turns visiting Taylor once a month on a Saturday.

Project HAND OVER

Contents:

- All sections of our code are finally be presented as python files have been uploaded through GitHub

How:

- Through GitHub or formal meetings

When:

- Two weeks before the end of Sprint 4



Thank you for listening!



Q & A

