

INDIVIDUAL PERSON ACTIVITY-TRAVEL
TRACKING SYSTEM
(IPATTS):

USABILITY TEST RESULTS

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Description of the application

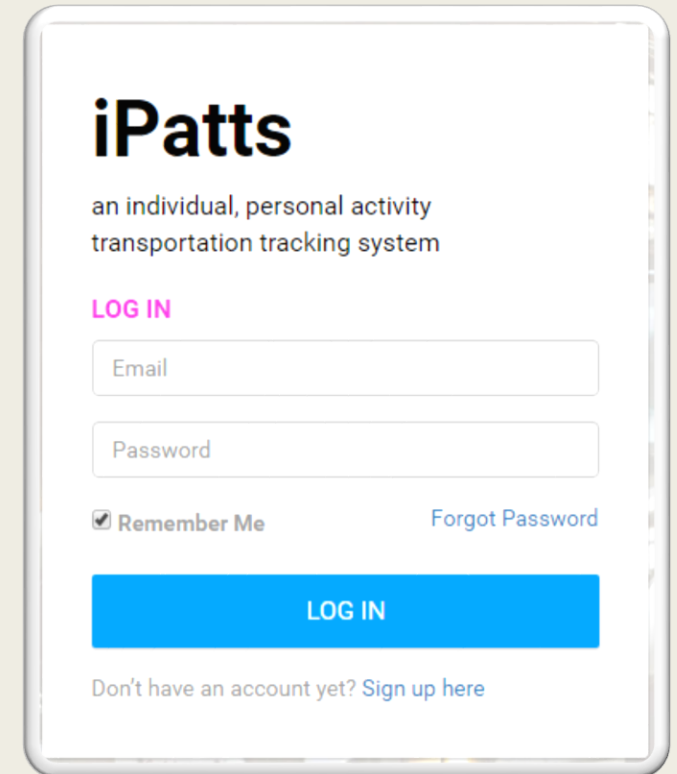
Individual Person Activity-Travel Tracking System (iPATTs):

- Objective:

To Collect activity-travel dynamics of an individual.

- Purpose:

To help scientists understand travel behavior for planning transportation infrastructure systems.



The screenshot shows the login interface for the iPatts application. At the top, the logo 'iPatts' is displayed in a large, bold, black font. Below the logo, the text 'an individual, personal activity transportation tracking system' is written in a smaller, black font. A pink 'LOG IN' link is positioned above the input fields. There are two text input fields: 'Email' and 'Password'. Below the 'Email' field, there is a checked checkbox labeled 'Remember Me' and a blue link labeled 'Forgot Password'. A prominent blue button with the text 'LOG IN' in white is centered below the input fields. At the bottom of the form, there is a blue link that reads 'Don't have an account yet? Sign up here'. The entire form is enclosed in a white rounded rectangle with a thin grey border, and it is reflected on the surface below it.

Test process

1. Consent form
2. Description of the app, and its purpose
3. Pre-test questions
4. Providing the participant with the pre-designed scenarios, one at a time
5. Post-test questions
6. A brief discussion with the developers about the test

*Test observer(s) took notes while the participants were performing the given tasks.

Data Collection

■ Quantitative measurement

- The time it takes to complete the task .
- Total number of non-fatal user errors. (Recover without any assistances)
- Total number of fatal user errors. (Recover with assistance)
- Total number of the times user asked for help
- Total time required to recover from an error

■ Qualitative measurement

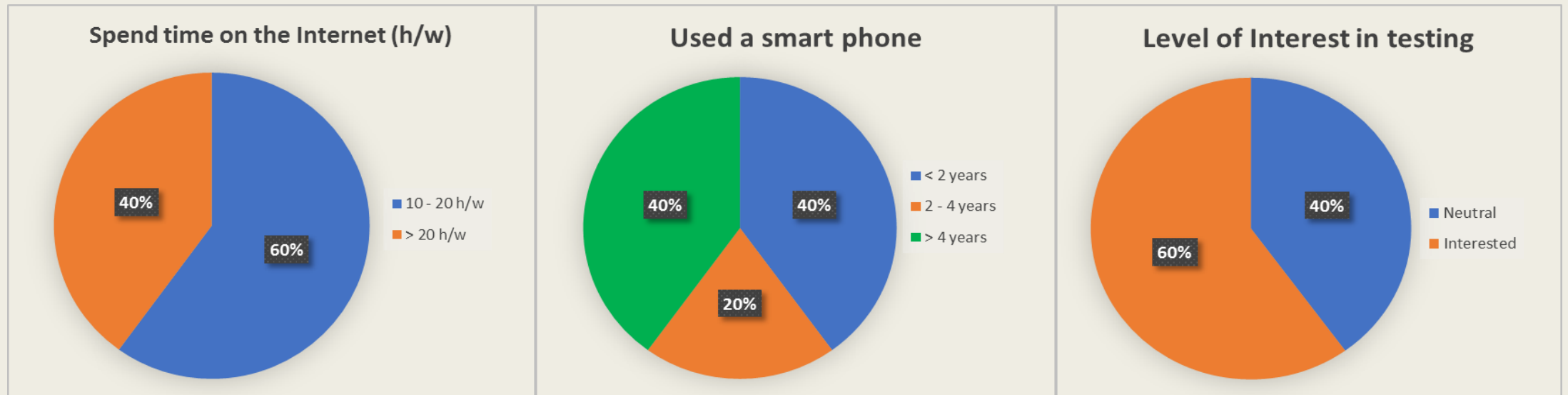
- Confusion, if any, through facial expression and listening while speaking out loud
- Frustration, if any, through facial expression and interests in completing the task

Usability Test Results

- iPatts's features are tested and evaluated accordingly,
- In general, iPatts's performance was good though it showed some inconsistencies
- The Participants found iPatts easy to utilize
- According to some of the participants none of the given tasks were confusing and the app was easy to navigate
- On the editing trip page there was not an edit button which may confused some participants.

Pre-test questions: Results summary

- Number of participants: 5
- Age of the participants: 18-22
- 80% male and 20% female
- 100% have used Internet for more than 5 years

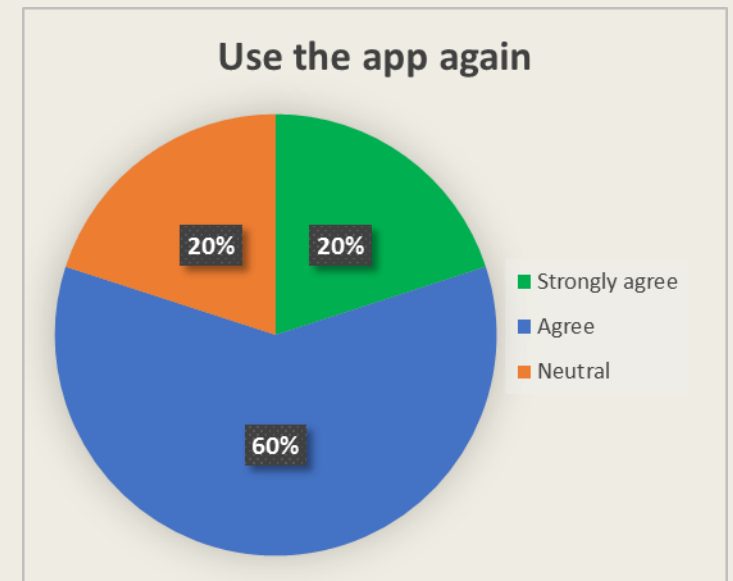
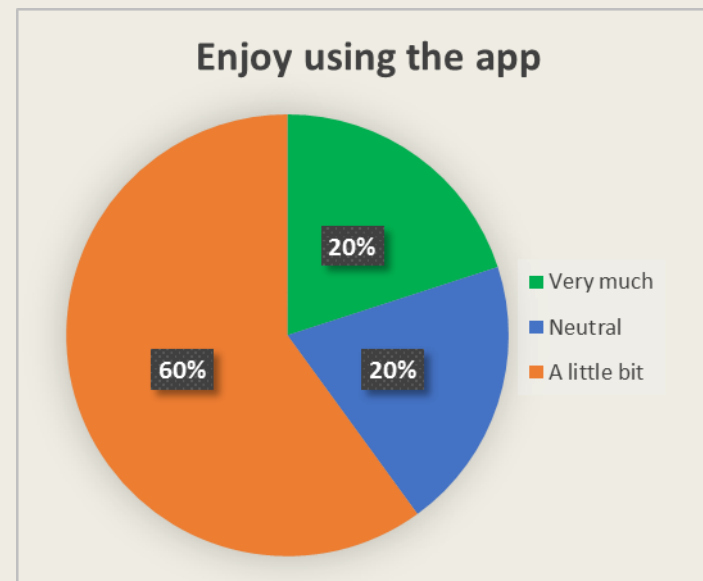
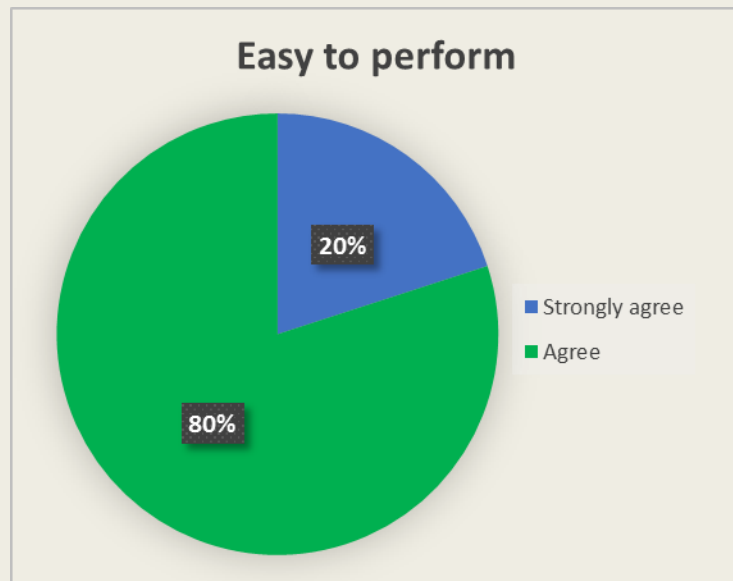


Quantitative Results

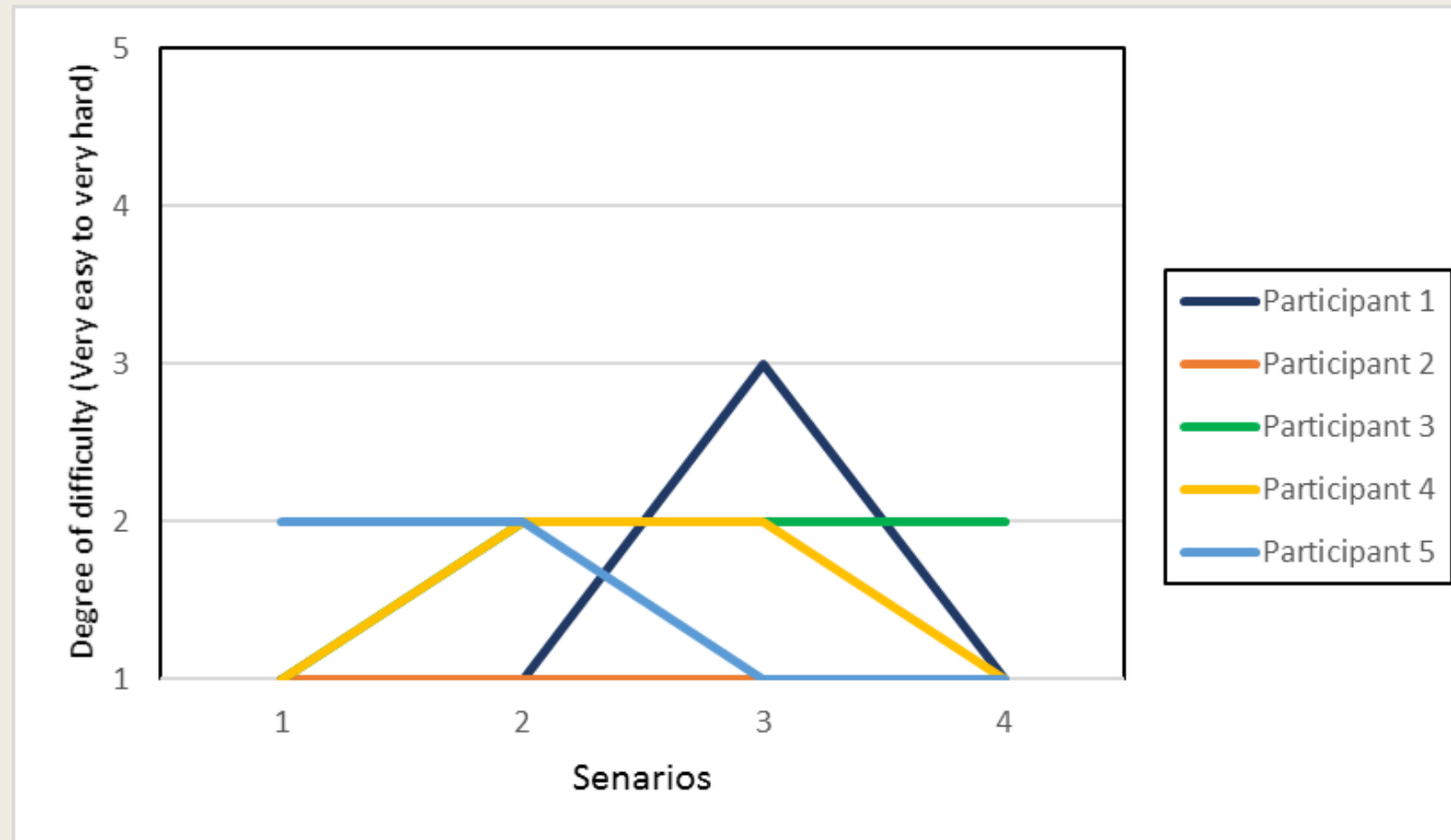
Following table shows the average quantitative results obtained from all the participants' tests.

Scenario NO.	Scenario description	Time on average (min)	Number of non-fatal error	Number of fatal error	Number of help needed	Time to recover error
1	Create and log in	<2	2	0	2	<1
2	Add and view trips	<1	2	1	2	<1
3	Edit a trip and confirm changes	<1	0	1	1	<1
4	Download the data	<1	0	0	0	-

Post-test questions: Results summary



Post-test questions: Results summary



Summary of bugs

Bug number	Bug name	Location	Description	servitiy of bugs
1	Styling bug	View trip	misplaced	Low
2	Update	Edit	Time updated to the current time when a trip edited	Medium
3	Styling bug	Download	Misplaced time	Low
4	Update	View trip	Some info not updated	High

Recommendations

- Nothing on the editing trip page indicates that the trip was being edited/updated. It is suggested to inform the users when the trip is successfully updated.
- It is recommended that an edit button should be added in the editing trip page; thus, users can easily find a proper way to edit the added trips.
- In the sign up page, users will not receive an error immediately after they enter an invalid password (e.g. insufficient length).
- It is also suggested to utilize auto form fill features so users do not need to re-enter all the information after receiving an error for any reasons.

Thank you!

For detailed information, please refer to my Usability Test Report which will be accessible on my [website](#).