

# Acquired Brain Injury Memory Exercises

MSc Dissertation Project  
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## Project Overview

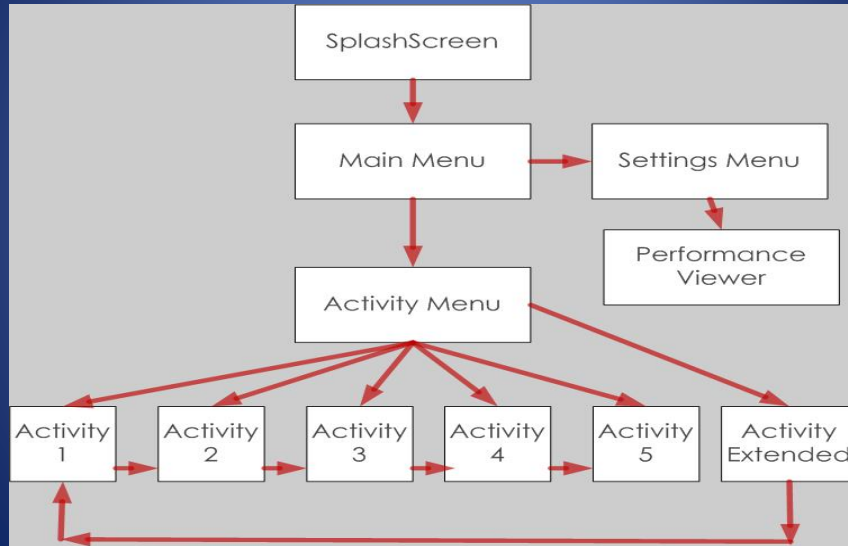
- Project outline defined & requested by James Japp of neuropsychologists UK.
- Application to aid in the rehabilitation of individuals whom have sustained brain injury.
- Improves memory functions through repetition of tasks in verbal prompting, numerical recollecting and imagery.

## Project Outline

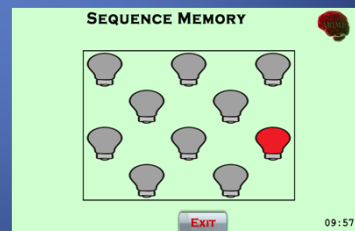
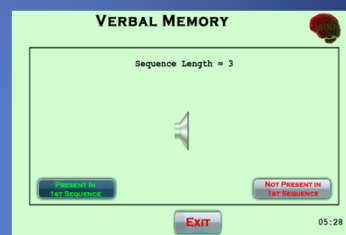
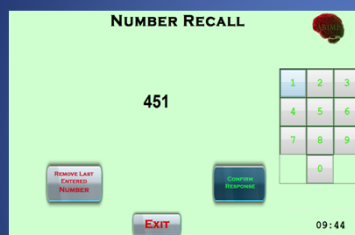
- Application to be developed using Java in order to be used on varied range of PC hardware.
- User Interface should be easy to follow and understand
- Consistent throughout as users mental model of the software will be one of familiarity.

- Set of five separate memory tasks which assess short and long term memory
- Variable timers, sequence lengths and option to vary the conditions of each activity
- Data Collection of performance statistics

# Project Flow Diagram



# Example Screens



## Project Status

- Currently 90% complete
- Data collection To be refined
- User Interface needs fine tuning
- Simplification of prompts/instructions
- User information needs re-written for proposed users

## Future Work

- Further work includes:
- Animation
- Building for more screen resolutions
- Extending settings options
- Greater depth of data collection for analysis
- Smoother screen switching (off screen buffering)