

Project Proposal

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1 Context

1.1 Introduction

Context

- Designing Emergency Checklists is difficult
- Checklists are usually carried out in high workload environments, especially emergency ones

Problem

- There are some checklists that may not be fit for certain scenarios
- Some checklists may make pilots “stuck”
- Checklists may take too long to carry out - Swissair 111

Rationale

- Test checklists in a simulated environment
- Results in being able to see where to improve checklists

1.2 Key Background Sources

Resource	Info
US Airways 1549 NTSB Investigation [1]	Description: An investigation on an aircraft that suffered from a dual engine failure from a bird strike forcing the pilots to land on the Hudson River. Reason: The investigation found that the QRH was too lengthy and the pilots’ used their experience to prioritize essential actions outside the QRH to keep the aircraft in control.

2 Aim and Objectives

3 Planning

3.1 Diagrammatic Work Plan

3.2 Brief Explanation

3.3 Risks

4 Ethics

4.1 Ethics Checklist

My project:

1. Will *not* involve working with **animals** or users/staff/premises of the **NHS**
2. Will be carried out **within the UK or European Economic Area**
3. Will *not* have any impact on the **environment**
4. Will *not* work with populations who do *not* have **capacity to consent**
5. Will *not* involve work with **human tissues**
6. Will *not* involve work with **vulnerable groups** (Children/Learning disabled/Mental health issues, etc.)
7. Will *not* involve any *potentially* **sensitive topics** (Examples include but are not exclusive to body image; relationships; protected characteristics; sexual behaviours; substance use; political views; distressing images, etc.)
8. Will *not* involve the collection of any identifiable personal data

4.2 Ethical Considerations

5 References

- [1] National Transportation Safety Board. *Loss of Thrust in Both Engines After Encountering a Flock of Birds and Subsequent Ditching on the Hudson River*. Technical Report PB2010-910403. May 2010. URL: <https://www.nts.gov/investigations/Pages/DCA09MA026.aspx>.