Veterinary Expert System for Remote Use
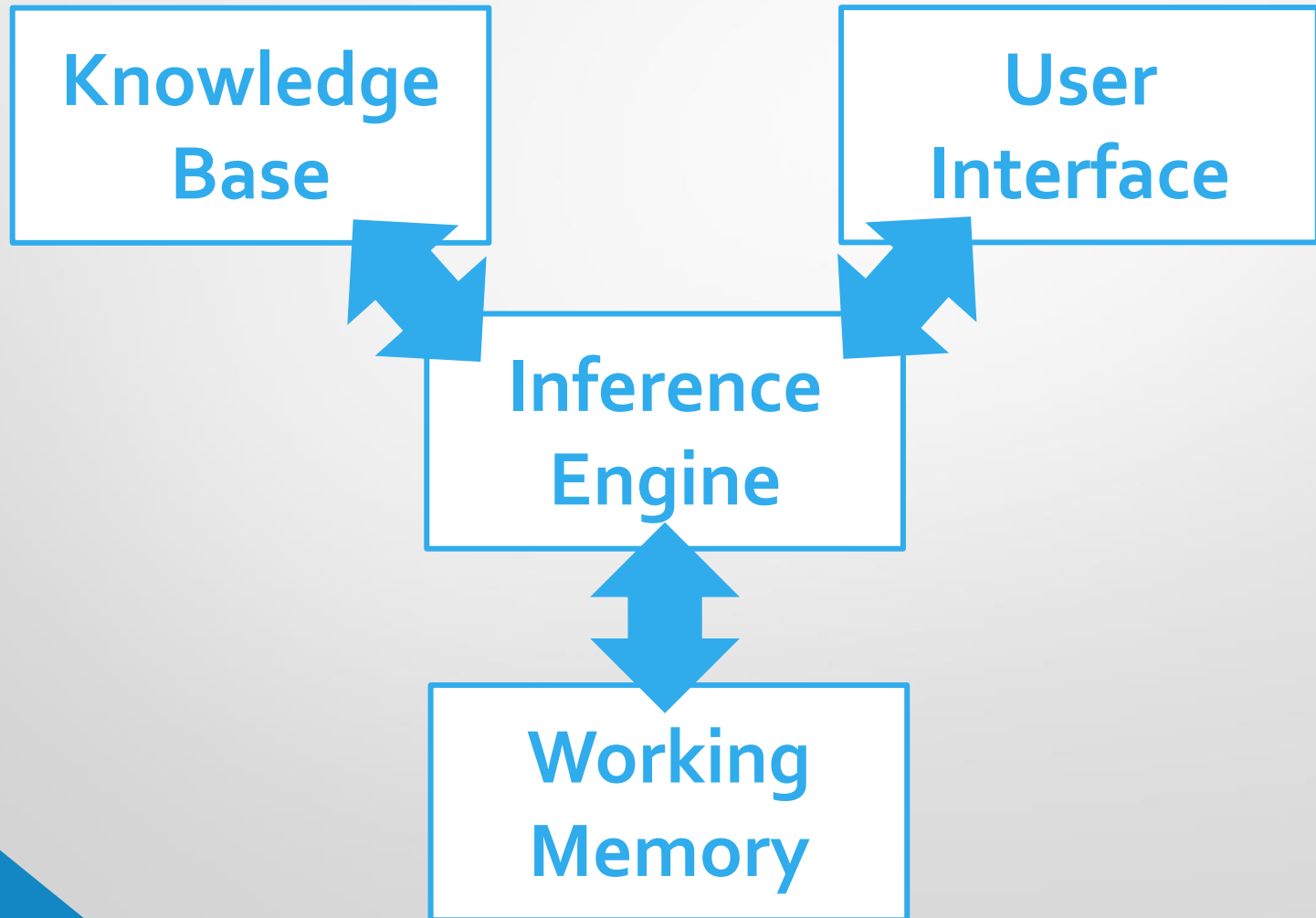
Stephen Carse

Supervisor: Dr Karen Bradshaw

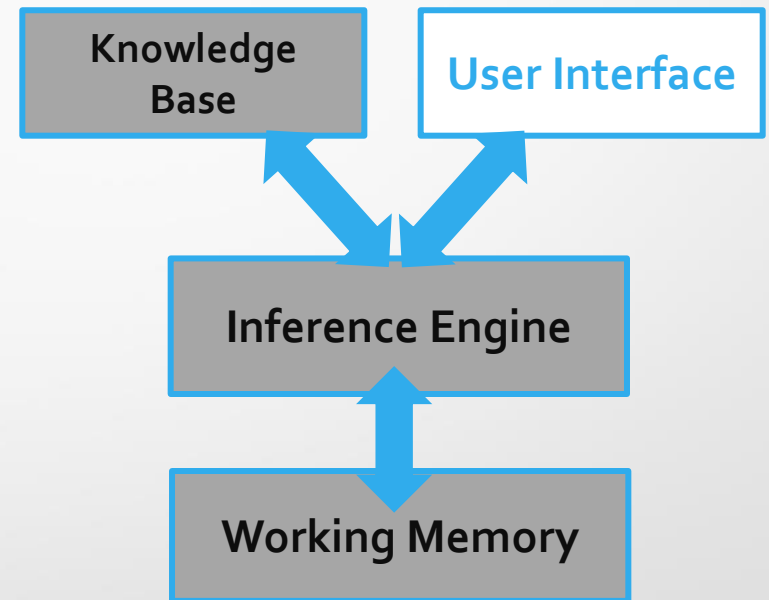# Recap: My Expert System

- Veterinary diagnosis expert system

- Mobile interface

  - Accessible in remote areas

- Possible extensions

  - Mechanism for addition of further knowledge

  - Feedback taken into account by the system

Expert System Components

Knowledge Base

User Interface

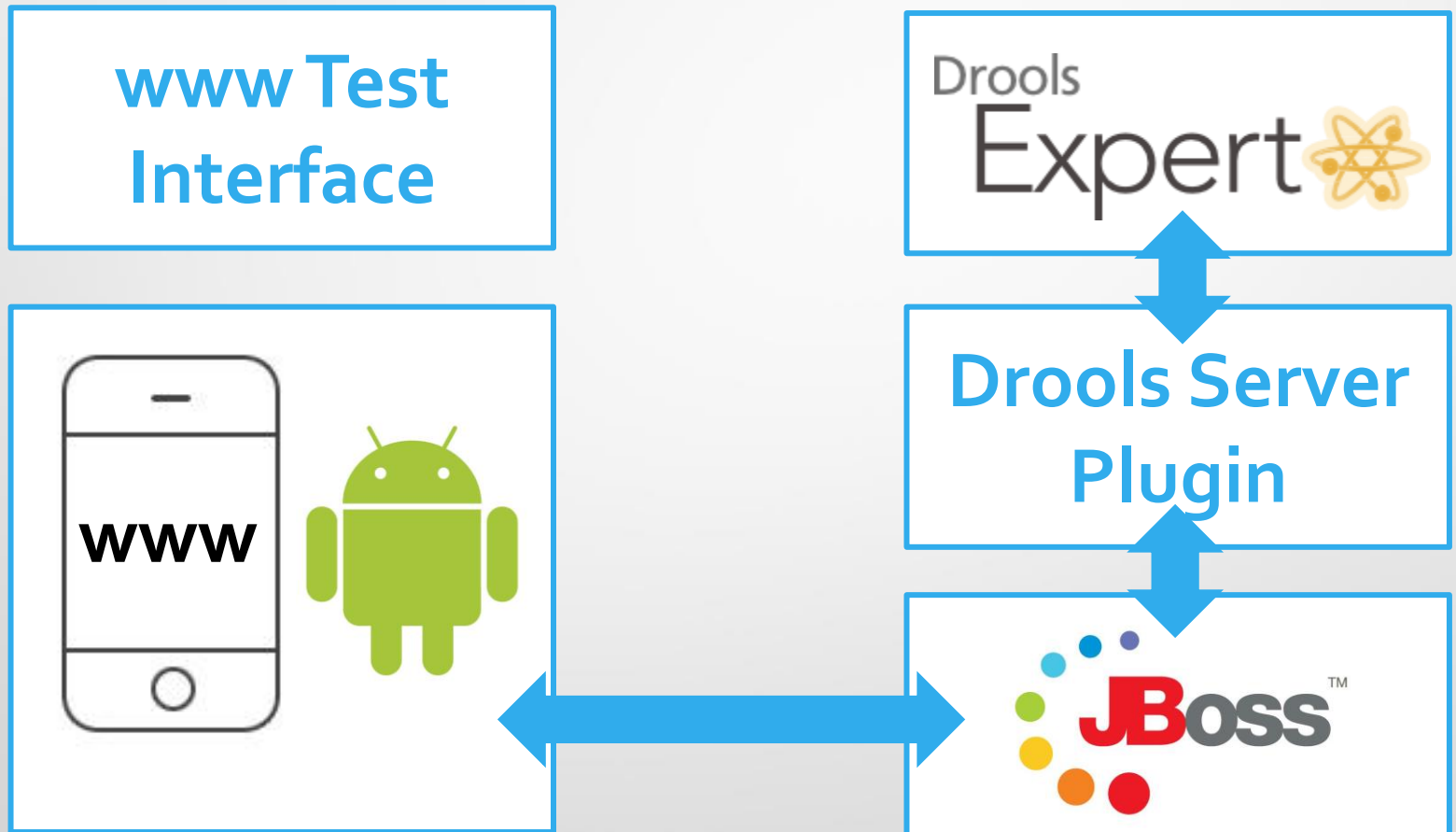**Inference Engine**

Working Memory

Drools

- Declarative, rule-based coding environment

- ReteOO algorithm

  - Natural expression

- Employs pattern matching

- Java based

Mobile Interface

- Considerations:

  - Graphically rich applications are preferred

  - Ease of use is paramount

  - Remote area – signal

- Options

  - Mobile website

  - Smartphone application (Android)

  - SMS-based

System Structure

Going Forward

- Foundations largely in place

- Determine exact scope of the system

- Convert knowledge into rules

- Develop user interface

- Testing

Questions

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