AutoBev

AutoBev is an automated beverage ordering and dispensing system intended for use at drinking establishments. The customer is able to order and pay for his or her own beverage without assistance from the bartender.
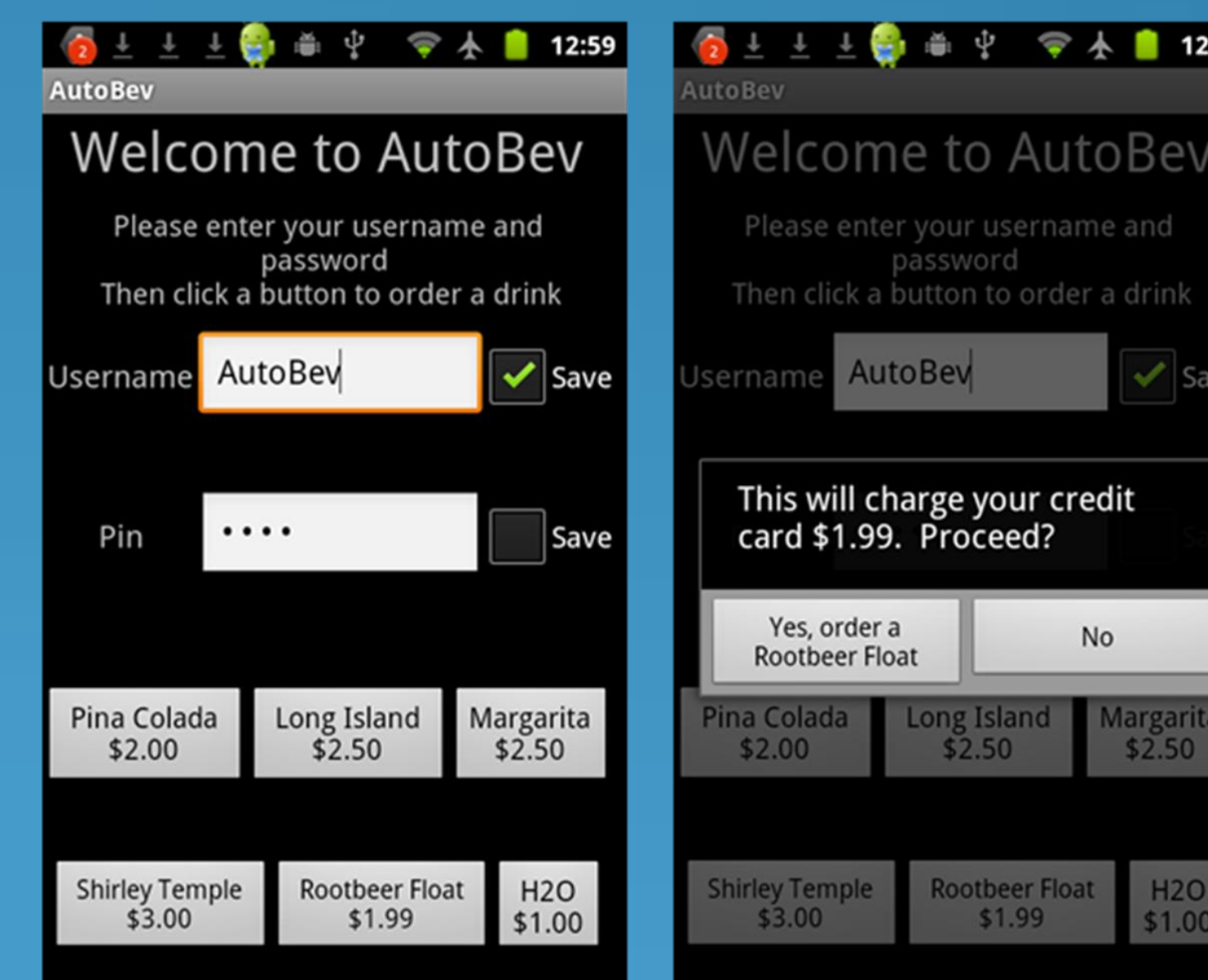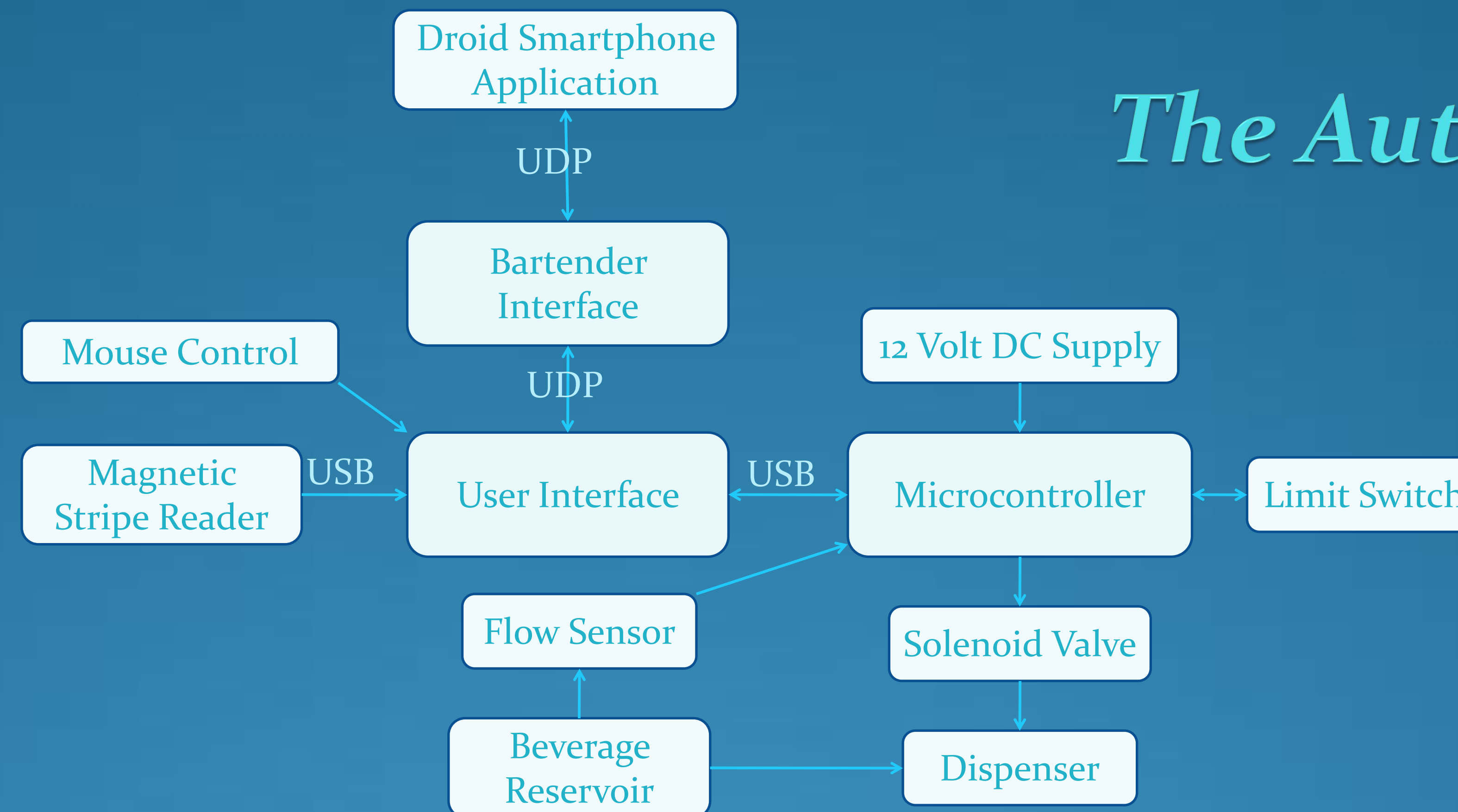
Benefits:
• Shorter and fairer wait times
• Increase efficiency
• Easily expandable
• Increase order accuracy
• Order from smartphone
• Decrease workload of employees

Logic Behind the System:
• Beverage dispensing through basic control circuitry
   and flow sensing
• C programming on the Microcontroller
• User and Bartender Interfaces created using
   Microsoft Visual Studio in C#
• Android application written in Java code
• UDP used as the primary communication protocol

The AutoBev System

Droid Smartphone Application

UDP

Bartender Interface

Mouse Control

UDP

12 Volt DC Supply

Magnetic Stripe Reader — USB → User Interface — USB → Microcontroller — Limit Switch

Flow Sensor

Solenoid Valve

Beverage Reservoir → Dispenser

AutoBev on the Droid

Team AutoBev - University of Notre Dame - EE Senior Design 2011

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