

# **Multi-Touch Poker Table Top** for the iPhone

GROUP IV MEMBERS:

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## **I. Description**

This project is motivated by the growing ownership of iPhone and iPod Touch devices. These devices are carried by numerous people, including a growing number of enterprise users. The ability to use these devices to create community of pleasure locally is something that has not been explored. The ability to install an application and play a game with a set of strangers or friends is very intriguing.

The multi-touch table would provide a unified interface to integrate personal iPhone and iPod Touches into a network for gaming purposes. For this project, a game of Texas Hold'em Poker will be integrated. Also, the table would allow users to play music from their own devices through built-in speakers. Finally, the table would provide menu and ordering capabilities for a café.

The ultimate goal of this project is to create a centralized area for a community to interact over a game or music in a coffee shop, waiting room, or other public places.

## **II. Specifications and Requirements**

### **Multi Touch Table**

With the proper options on each device enable, each device will Auto-connection to the system

The constructed table will not be higher than 3 feet

The resolution of the screen will be at least 800 x 600

The diagonal size of the screen will be at least 30 inches

The table top will have enough room to accommodate up to 4 coffee mugs

The table will include a four docks to charge devices while playing using USB 2.0

### **iPhone Software**

Music will be able to play through speakers attached to the device

Auto Player assignment based upon geographic location using magnetic north as a delimiter

Player chip count will be displayed on the iPhone/iPod Touch

Hole cards will displayed face down until the user flips the device with the screen facing towards them.

Cards will flip in both horizontal and landscape orientations

### **Texas Hold 'em Software**

The Software will be able to support the following devices:

iPhone EDGE

iPhone 3G

1<sup>st</sup> Generation iPod Touch

2<sup>nd</sup> Generation iPod Touch

The table will support the iPhone OS 3.0

The table will support up to four iPhones/iPod Touches

The software will utilize OpenGL graphics

The software will support a minimum of two and maximum of four players

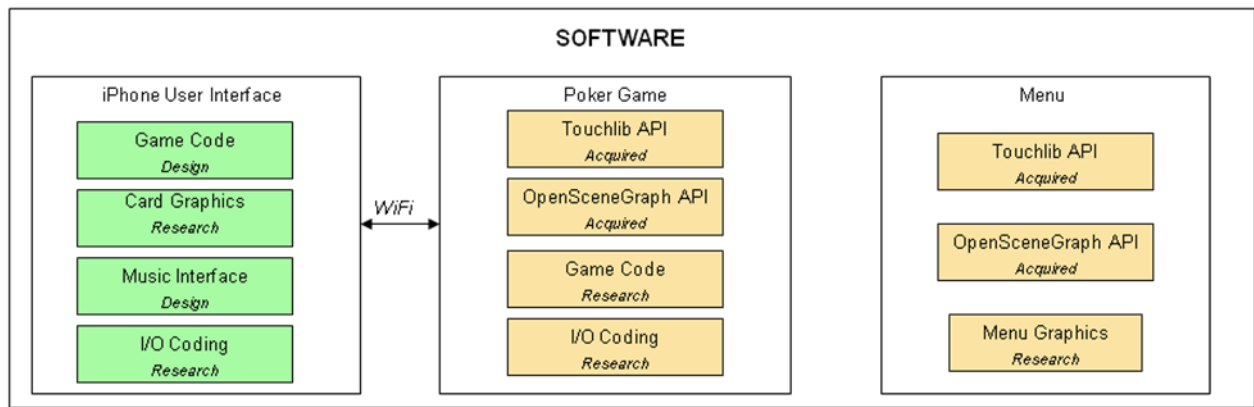
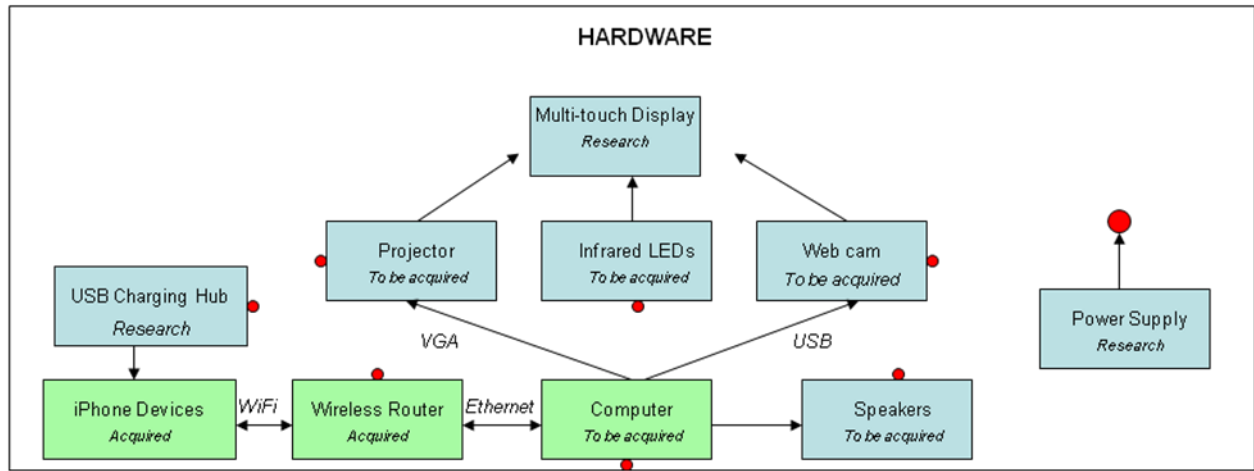
The software will support Limit and No Limit Texas Hold 'em Poker

Player chip count will be displayed on the table

The software will allow the user to bet chips using gestures on the table

The software will include a touch screen menu to pause and restart games

### III. Project Block Diagram



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#### IV. Budget and Financing

Projector	Donated/200.00
iPods/iPhones	Aquired
Webcam	30.00
LEDs	.30 each * 75 = 22.50
Plexiglass	25.00
Wood/Table Construction	30.00
<b>Estimated Total</b>	337.50
Estimated Total / 3 group members	112.50