ENPRO 350

Browsable Audio for Language Learning

Midterm Report – October 26th, 2006

Team Members

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MISSION

To usher in a new technology called 'Browsable Audio' that delivers effective language learning tools on portable devices.

- Browsable Audio
 - step-through capability
 - each word is linked to information
- Language Learning
 - audio book combined with scrolling text
 - quick look-up of definition and usage

PRODUCT

In his eyes she eclipses and predominates the whole...





Predominates:

To have or gain controlling power or influence; prevail

.

VALUE PROPOSITION

- Learn a new language anywhere, anytime
- Transition from intermediate proficiency to fluency
- Cost-effective
- Vast applications for browsable audio in future

TECHNOLOGY

Adam Berg (team leader)
Josh Short
Dariusz Kuc
Shivam Srivastava

OBJECTIVES

- Answer key questions
 - product, platform, interface?
- Build prototype
- Develop plan for product development

Completed research on a broad range of devices and brands

- Selected iRiver Clix MP3 as suitable device for initial proof of concept
- Flash LITE 2 as platform for creating prototype
- Completed interface design

Prototype Development

- CLIX application (Adam, Shivam)
 - workflow design completed
 - coding in early-mid phase

- Dictionary pre-processing (Dariusz)
 - algorithms complete
 - interface development in progress

```
import mx.controls. ":
stop();
var i:Number = new Number(1);
var i:
var words;
var bookAudio = new Sound(main movie);
var startArr:Array = new Array;
var endArr:Array = new Array;
var wordsArr:Array = new Array:
var file Arr:
setInterval(function(){
          i = (bookAudio.position);
                     // set status_txt to i
          ,100);
var textFile:LoadVars = new LoadVars();
var bause button:mx.controls.Button:
this create EmptyMovie Clip ("main movie", 10);
this.createTextField("bookText", 999, 34, 105, 500, 500);
bookText.type = "dynamic":
bookTextborder = true;
bookTextwordWrap = true;
bookText.multiline = true:
bookTextbackground = 0xFFFFFF;
textFile.load("c:\\iprotext.txt");
textFile.onLoad = function(success){
                     bookText.text = this.book:
bookAudio.attachSound("iproaudio");
bookAudio.start(0,99);
```

Operational Plan for Future

Application for alignment of text and audio (Josh)



- Research in progress of Sphinx speechrecognition engine
- Considering .NET platform for development work

BUSINESS

Shravani Pasupneti (team leader)
Ryan Feuerstein
Soham Patel
Syed Zaffer
Sayiddah McCree

OBJECTIVES

Business

- Define target market
- Competitor Analysis
- Understand customers group
- Understand IP, DRM & copyright issues involved
- Prove interest for our product
- Explore partnerships

Target Market

- Business individuals
- ESL students
- Wide, expanding customer base
- To Do
 - Narrow customer base (financial, age group, demographic analysis)
 - Further define value proposition

Competitor Analysis

- CleverLearn, Audible.com, Rosetta Stone
- Competitor or Partner?
- To do
 - Study competitor's business models and possible tie-ups
 - Business model, revenue, process

Legal Issues

- DRM issues
- Determined process to obtain interactive media rights
- To Do
 - Explore copyright costs
 - Understand process to acquire content

Prove browsable audio as effective language learning tool

- Conducted focus groups studies with international students
 - Audio/Listening preferred to speaking, writing, reading
 - 80% prefer Audio books to other means
 - Majority use dictionary to look up words

Prove browsable audio as effective language learning tool

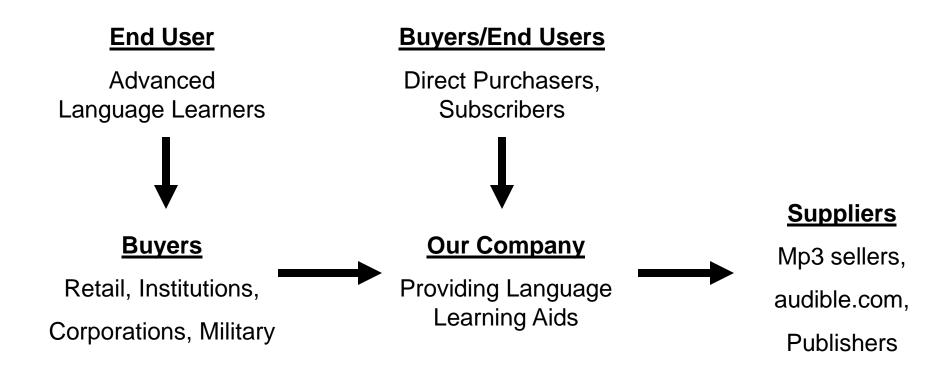
•To Do:

- More focus groups
- Based on current surveys, improve questions and determine target group
- Contact executives, businesses, language schools and ESL students

Partnerships for content and distribution

- Competitors or partners?
- Distribution channel
- Broad definition of target market
- To Do:
 - Contact potential distributors
 - Examine partners outside partners
 - Determine pricing
 - Develop marketing strategy and costs

Cash Flow Model



PROBLEMS FACED

- Time crunch
- Prototype needs a lot of work
- Need concrete plan for future development
- Insufficient business knowledge
- Difficulties reaching a consensus
- Initial lack of motivation

FUTURE TIMELINE

	Business	Technology
10/31	Complete "To Do" tasks outlined previously	Continue progress as outlined previously
11/07		
11/14	Executive Summary	Split team: assist with Executive Summary
11/21	IPRO Day Poster, Deliverables, Exhibit Preparation	
11/28	Finalize Business Plan	Finalize Prototype

FINAL THOUGHTS

- Momentum after initial hiccups

- progress on business plan

- technology is huge challenge