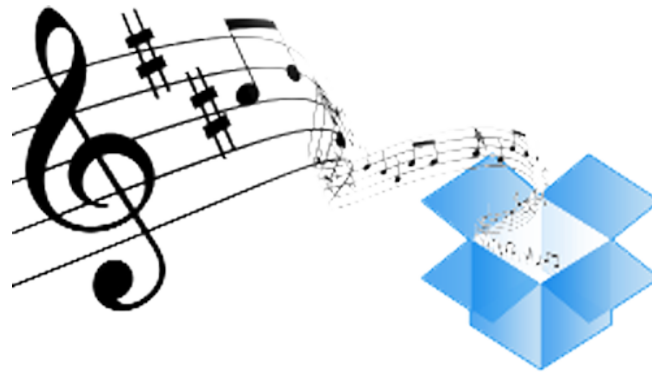


Musical Reporting Box

Functionality Presentation



Presented By:
Jordan Knopp, Jeff Korn, Yassine Elouri, Steve Yoss



Presentation Agenda



This presentation will include:

1. Overview of the Project
2. Project Deliverables & Features
3. Project Development Process
4. Demonstration
 - a. Backend Development
 - b. User Interface Design & Operation
5. Conclusion

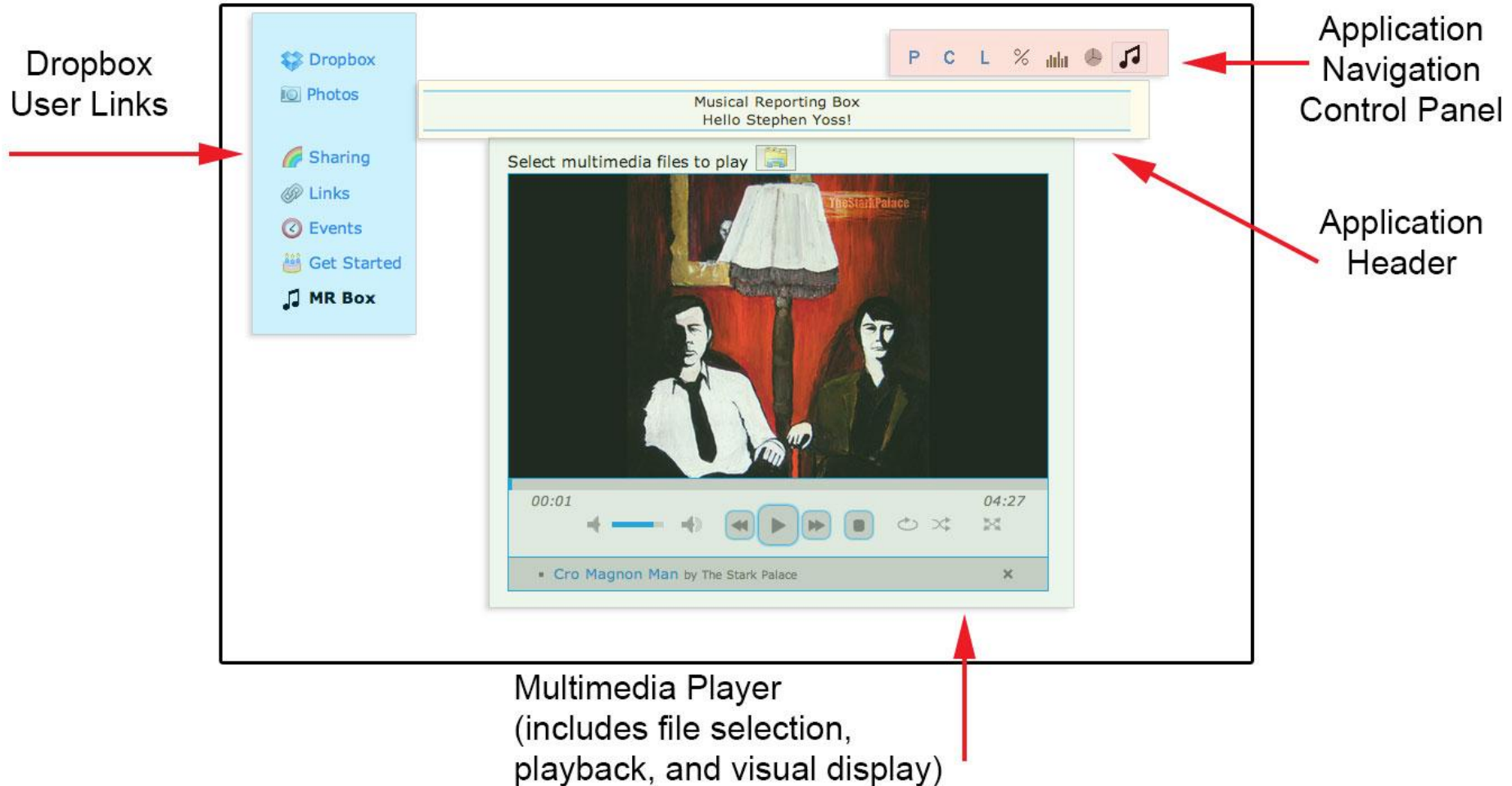
Project Deliverables & Features

Three Main Components of Functionality:

1. Dropbox Integration
2. Multimedia Presentation
3. Graphical Reporting Tools



Multimedia Display & Playback



Dropbox Reporting

Dropbox

Photos

Sharing

Links

Events

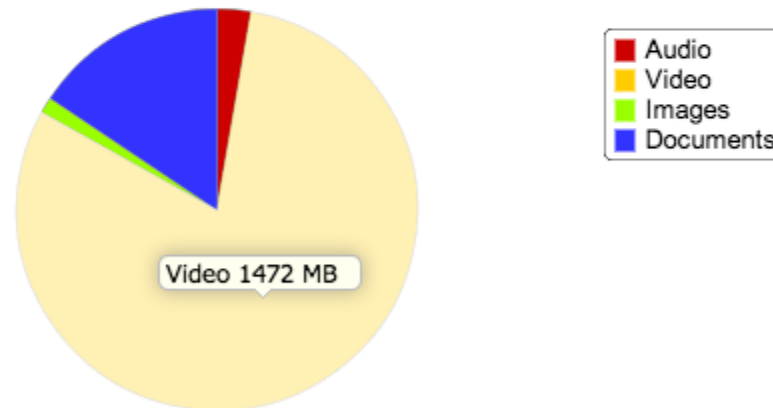
Get Started

MR Box

P C L %   

Musical Reporting Box
Hello Stephen Yoss!

What kind of filetype takes up the most space?

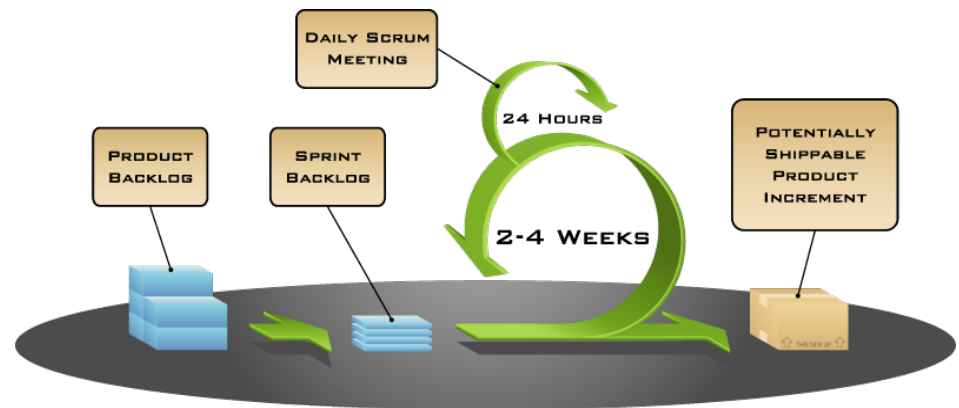


When the user selects the pie chart icon they are presented a pie chart graph that displays an allocation of their account by file type.

Project Development Process

What was the higher level process followed by this project?

- Scrum / Rational Unified Process - *Planned*
 - Discovery
 - Elaboration
 - Production
 - Quality Assurance
 - Document



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Project Development Process

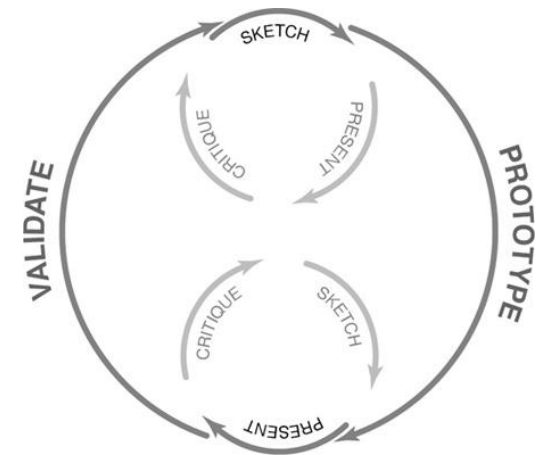
What process was implemented?

- Agile Scrum Methodology
 - Scrum / Status Meeting Hybrid (Two times per wk)
 - Two week iterations
- Pair Programming
 - Development sessions
 - Email / WebEx / Meetings
- Lean UX Development Process

Project Development Process

What process was implemented?

- So, what is Lean UX?
 - Pairing of User Experience (UX) architects and web developers to produce workable code at the end of iterations
 - Quick Design, quick execution
 - Limited to no documentation



Project Development Process

What process was implemented?

- QA Testing Scripts
 - Unit Tests - *Moderate*
 - System Integration - *Extensive*
 - User Acceptance Test (UAT) - *Limited*
 - Usability Testing - *Limited*

Project Development Process

What tools were used during the project?

- Issue and Bug Tracking - Jazz Hub
- Document Center (Wiki) - GitHub
- Graphic Design / UX Design - GIMP, Visio, PPT
- Dev Environment / Content Repo - Dropbox
- Production Environment - LAMP Environment
- Communication - WebEx, Skype, Email
- Documentation - Google Drive, Office

Project Development Process

How effective was the process?

- **Opportunities That Worked Well**
 - Efficient tracking of planned stories in Jazz Hub
 - CSS and HTML5 scripts used for easier code creation
 - Dropbox API integration effective for file selection and RGraph reporting
 - "Good enough" philosophy used to meet dev goals
 - Lean UX and efficient QA made project agile

Project Development Process

How effective was the process?

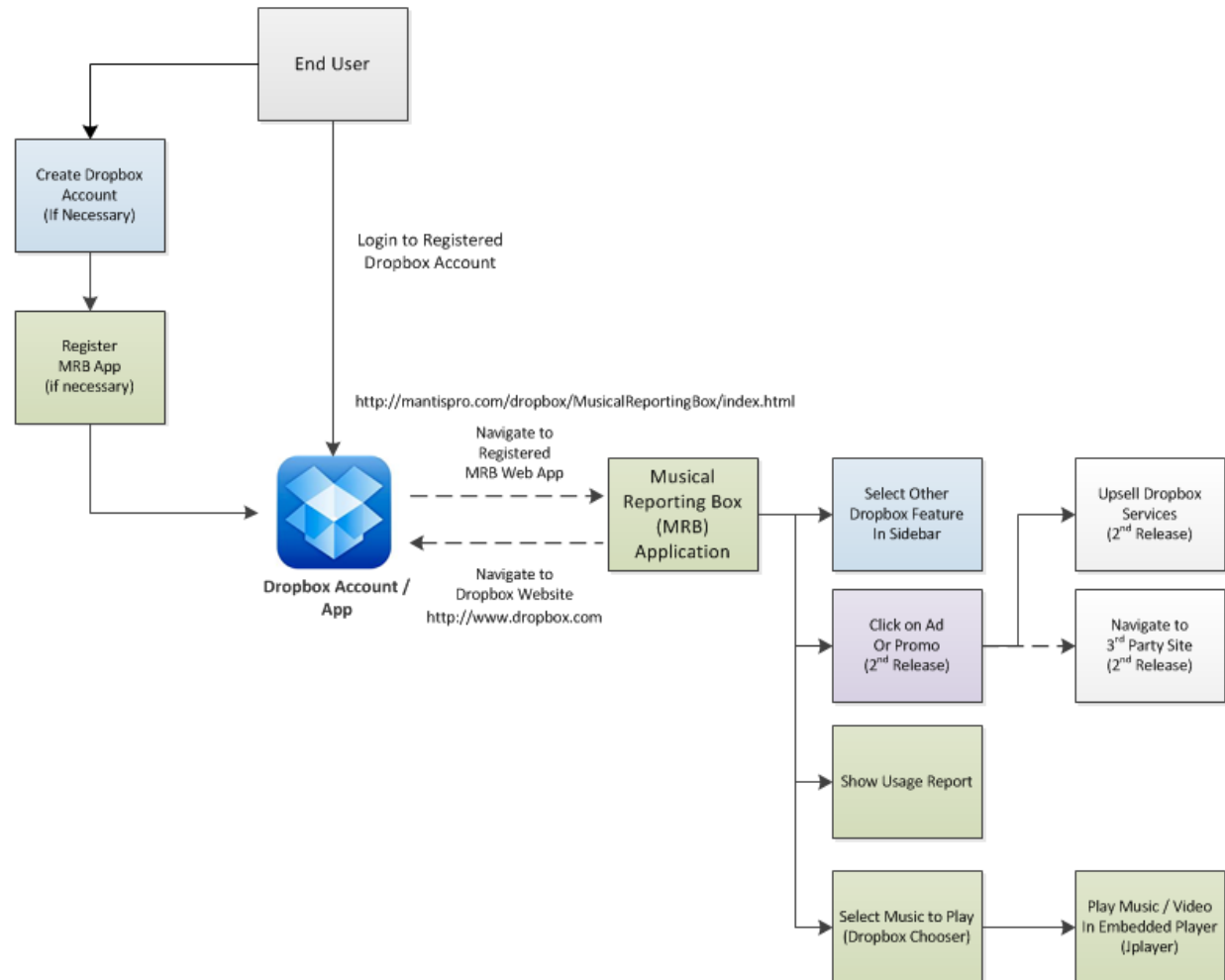
- **Opportunities for Improvement:**
 - Product changes not always tracked in Jazz Hub
 - Environment changes necessary, but required reworking
 - Planning and structure impeded by schedules of team members
 - Communication about project goals and milestones could have been more clear

Project Development Process

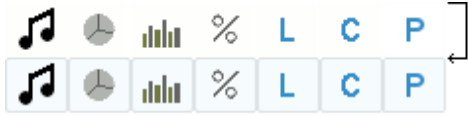
What is the system design?

This diagram illustrates the workflow of the application.

Musical Reporting Box Design (Final)



Project Development Process



Dropbox

Photos

Sharing

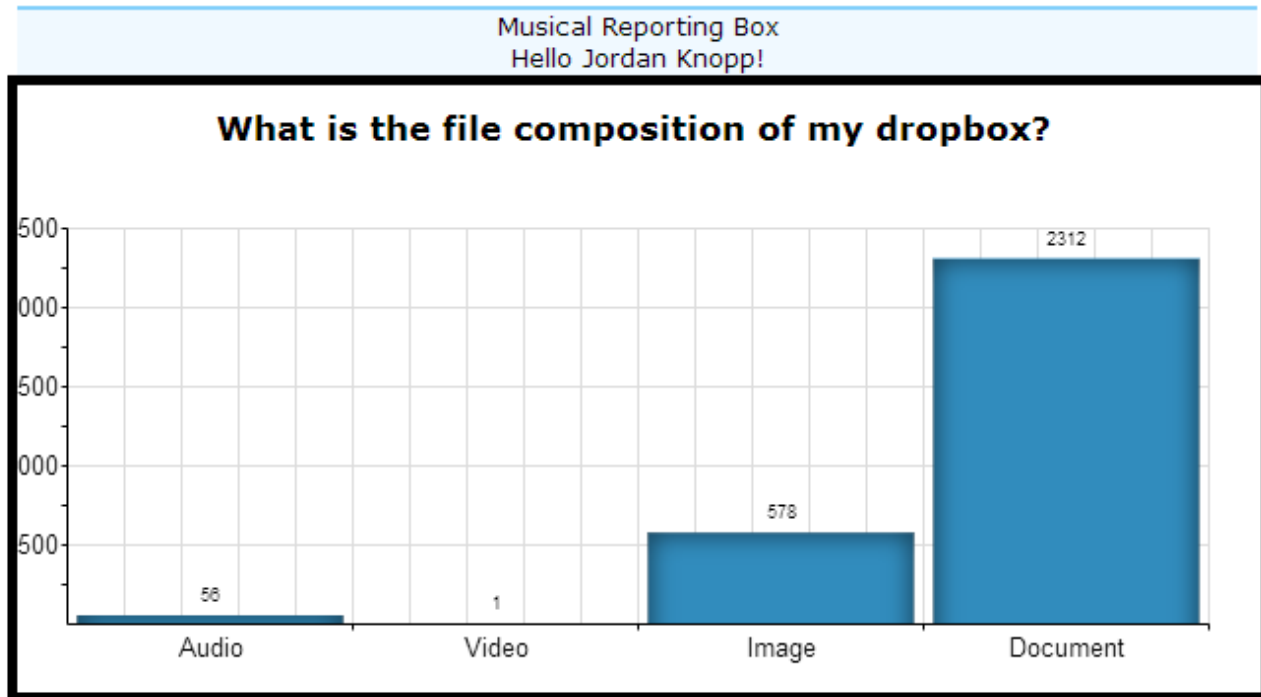
Links

Events

Get Started

MR Box

7 ... 2 1
P C L %



3/7

Project Development Process

Javascript and Asynchronous Programming

```
// STORAGE ANALYSIS
function getData(path) {
    var stat;
    var contentStat = [];
    client.stat(path, {readDir: true, Number: 25000}, function(error, stat, contentStat) {
        for(var i = 0; i < contentStat.length; i++) {
            if(contentStat[i].isFolder) {
                getData(contentStat[i].path);
            } else {
                stats.push(contentStat[i]);
            }
        }
    });
}
```

Project Demonstration

 Dropbox


 Photos

 Sharing

 Links


 Events

 Get Started

 **MR Box**

P C L %   

Musical Reporting Box
Hello Stephen Yoss!

Select multimedia files to play 





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Questions?
Comments?

Thank you!