MICHIGAN STATE UNIVERSITY

# 09/08: Risks and Prototypes

#### The Capstone Experience

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Department of Computer Science and Engineering Michigan State University

Fall 2022



From Students... ...to Professionals

#### Meeting Attendance, Preparation & Participation (MAPP) [1 of 2]

#### **MAPP** Point Deductions

- All-Hands / Split-Hands
  - Meeting-Ready≤ 3:00:00 p.m.
    - o Present
    - o -0.0 MAPP Points

#### ■ 3:0:01 p.m. ≤ Meeting-Ready ≤ 3:05:00 p.m.

- o Late
- o -0.5 MAPP Points
- Meeting-Ready > 3:05:00 p.m.
  - o Absent
  - o -1.0 MAPP Points

#### Leave Meeting

- In Person: Leave the Room
- Online: Miss Google Form (During or At End)
- -1.0 MAPP Points
- Weekly Triage Google Form and Google Slides
  - Late or Not at All
  - o -0.5 MAPP Points

#### Meeting Attendance, Preparation & Participation (MAPP) [2 of 2]

- Excused Meeting Absences
  - Job Interviews
    - Documentation Deemed Valid
    - In Advance of Absence
  - Sickness
    - Documentation Deemed Valid
    - o ASAP
  - Grief Absence
    - See MSU Policy
    - Done in Advance of Absence
  - Some MSU Events
- Contact your TM and James, not Dr. D.
- Cannot Accommodate Most Conflicts
- No Accommodations for Personal Reasons Other Than Above
- Cannot Be Excused from Doing Work
- Taking or Retaking Capstone in Spring 2023
  - Limited Enrollment
  - Students who are first-time eligible get priority.

### **Risks and Prototypes**



#### Prototypes



# **Identifying Risks**

- What You Don't
  - Know
  - Understand
  - Know How to Do
- Normally
  - Major Project Features
  - "Showstoppers"
- Varies From
  - Not Familiar With But (Probably) Can Learn

to

Absolutely No Idea How to Do It

What are you worried about?

What should you be worried about?

### **Example Risks**

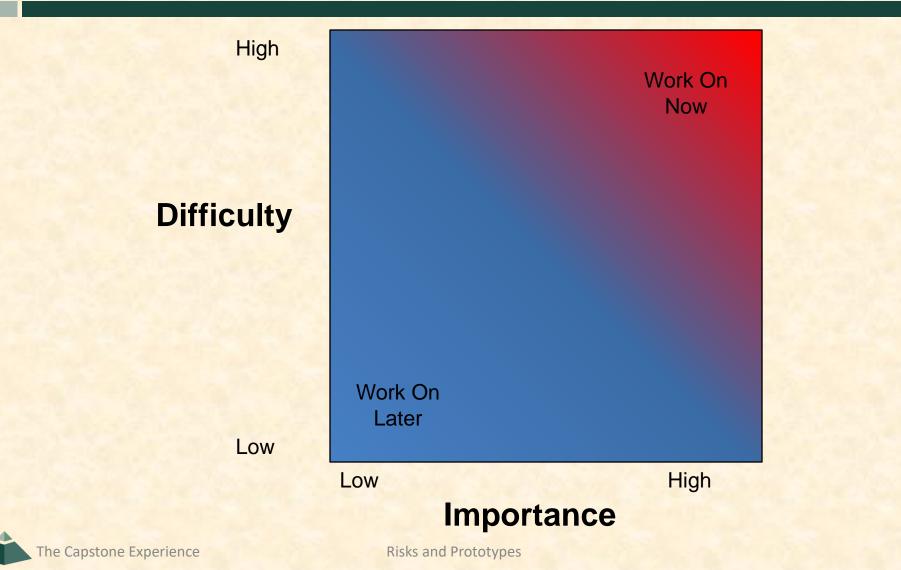
Including but not limited to...

- Business Processes
- Key Application Features
- Hardware Systems
- Software Systems
- Development / Programming Environments
- Programming Languages
- Etc...

### **Prioritizing Risks**

- Classify Difficulty
  - High Very Hard, No Idea How to Do
  - Medium
  - Low Not Hard, Probably Doable
- Classify Importance
  - High Showstopper, Must Have
  - Medium
  - Low Not Vital, Nice to Have

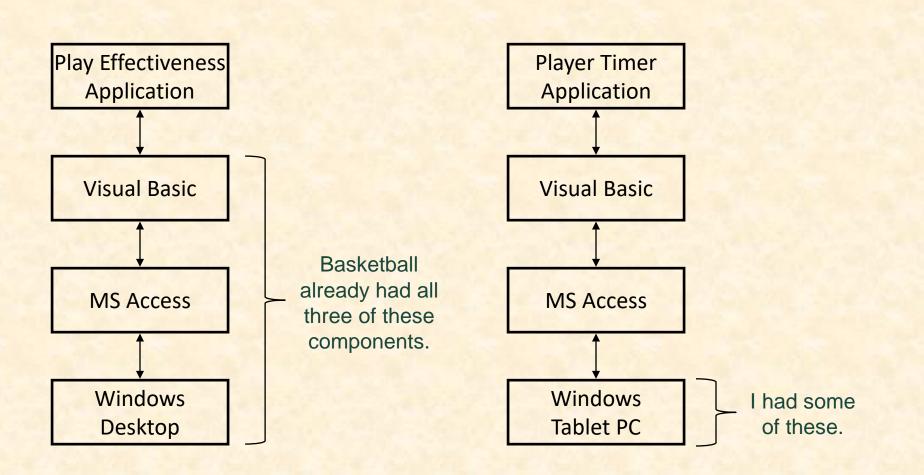
# **Prioritizing Risks**



#### Case Studies: MSU Men's Basketball Apps

- Play Effectiveness
  - Determine Effectiveness of Plays
  - Record All Plays with Results
  - Produce Reports of Effectiveness
- Player Timer
  - Keep Track of Player Times
  - Record Minutes Played and Rested
  - Use On the Bench, During the Game

# **Basketball Apps Architectures**



## **Basketball Apps Risks**

- What SDK should I use?
- Can I write this in Visual Basic?
- How do I make a UI in VB?
- How do I interface VB with Microsoft Access?
  - Create/Open/Save a Database?
  - Read/Write Records?
  - Traverse Records?
- How do I implement clocks in Windows?
  - Game Clock?
  - Wall Clock?
- How do I generate a report from Access?

## Mitigating Risks

- Use Existing Resources
  - Including But Not Limited To
    - Faculty
    - Other Students
    - Product Demos
    - Book Sample Code
    - Downloadable Examples
    - Wizards
    - Etc...
  - Test Drive
    - o Install
    - Compile
    - o Extend
    - Etc...
- Build Prototypes
  - Single Purpose
  - Quick-and-Dirty

#### Nota Bene:

- 1. Check license if including in project.
- 2. Document.
- 3. Inform client.

## **Basketball Apps Risk Mitigation**

- Implementing a Clock
  - Start /Stop
  - Counts Down
  - By Minutes:Seconds
- Handling Access Records
  - Write Number
  - Read Number
  - Add Up Numbers





### **Risks and Prototypes**

#### ✓ Risks

#### Prototypes



### Aside: Capstone Transition

- From... "Make one of these." –CSE Professor
  Coding
  Valuable Skills
- ... To "Solve my problem." Customer/Client
  - Gather Requirements
  - Design
    - Architecture
    - User Experience
  - Highly Valuable Skills

#### Prototypes

- Developed
  - Early
  - Rapidly
- Implement Subset of the Requirements
- Done for Variety of Reasons
- Are Not Finished Goods
- "Hacking" (Good Sense)

# Why? Answer Questions

#### Help Determine...

- Specifications
  - Functional
  - Design
  - Technical
- Usability
- How Existing Code Works
- Programming Languages
- Development Environments
- Operating Environments
- Etc...

### Why? Determine Schedule

Determine how long it will take to...

- ...learn the new programming language.
- ...learn the development environment.
- ...learn the existing code.
- ...convert the existing code.
- ...convert the existing database.
- ...get libraries working.
- ...deploy the application onto an iOS device.
- ....Etc....

# Why? Identify Risks

- Operability
  - How do we make a game clock?
  - Where do we store the data?
- Interoperability
  - How does the game clock work with other tablets?
  - How do the tablets all write to the same database?
- Scalability
  - Will the game clock propagate in real time?
  - Will the database engine keep up?
- Reliability
  - What happens if the clock tablet dies?
  - What happens if the database tablet dies?
- Etc-Ability...

# Speed (to Write)

- Critical
- 2-3 Day Tasks
- Use Whatever Works
  - RAD Languages
  - SDK's
  - IDE's
  - Design Tools
  - Wizards
  - Sample Code
  - Etc...
- Stop When Questions Answered

# Tradeoffs: Speed (to Write) vs...

- Speed (to Write) vs Best Software Practices
  - Testing
  - Documentation
  - Security
  - Software Engineering
  - Usability
  - Maintainability
  - Performance
  - Coding Standards
  - User Interface Standards
  - Using Real Data
  - Etc...
- Hence, May Not Be Appropriate in Final Deliverable

# Challenge/Danger

- **Googling for Answers**
- "Hack" Solution
  - It works.
  - It's \*a\* way to do something.

Often My Biggest Frustration

- VS
- "Correct" Solution
  - It works.
  - It's the \*"right"\* way to do something. (There may be more than one "right" way to do something.)

#### **Basketball Prototypes Case Studies**

#### Play Effectiveness

Player Timer



### **Basketball Staff**

- Head Coach
- Associate & Assistant Head Coaches
- Video Coordinator
- Director of Basketball Operations (DOBO)
- Graduate Assistants (GAs)
- Undergraduate Managers

### Basketball Play Effectiveness App

- Functional Specifications
  - Determine Effectiveness of Plays
  - Record All Plays with Results
  - Produce Reports of Effectiveness
     o Each Play
    - o # of Successes / # of Attempts
- Design Specifications?
- Technical Specifications?

## Initial Meeting with Video Coordinator

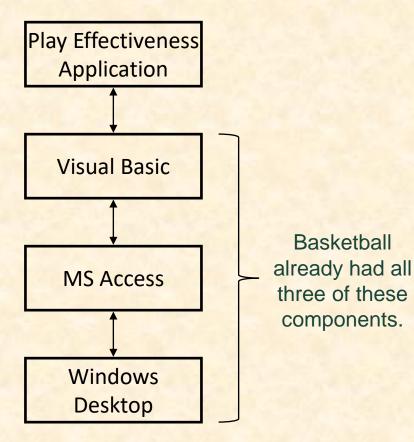
#### I Learned...

- Done After Game
  - On Desktop Computer
  - From DVR-Like App
- Lots of Plays (~ 200) in Play Book
- ~20-40 Plays Run Per Game
- Plays Categorized
  - Early Offense 1,2
  - Offense 1,2

- (i.e., Fast Breaks) (i.e., Half Court Plays)
- Special Situations 1,2 (i.e., Out of Bounds)

The — Business Processes

# **Play Effectiveness Architecture**



The Capstone Experience

### Risks

- Learning Basketball Business Processes
- Programming in Visual Basic
  - Can this be done in VB?
  - I Can I learn VB?
- Making a UI in VB
- Interfacing VB with Access
  - Creating/Opening/Saving a Database
  - Reading/Writing Records
  - Traversing Records
- Generating Reports in Access
- Etc...

🗲 Detail	_ = X
Game Opponent Harvard University	Location Boston
Date July 4, 1776	Number     1776070401       Roster
P# 48 T 12:34 C# 426 E01 Run	1         00:00         00:00         Adams, John           2         00:00         00:00         Jefferson, Tom           3         00:00         00:00         Washington, George
EO2         Gun           01         1-4 Screen           02         Low Post	4         00:00         O0:00         Franklin, Ben           5         00:00         00:00         Hamilton, Alex
SS1 SLOB SS2 Blah R Two Pointer	Next Play
Feed to Adams. Washington always gets the rebound. Jefferson or Hamilton should take the shot.	
	-

#### BB PE PV1 (Prototype Version 1) Fields

- P# Play Number
- T Time
- C# Clip Number
- EO Early Offense
- O Offense
- SS Special Situations
- R Result

#### Nota Bene

- Just Screen Layout
- No Code (Underneath)
- Never Have All Entries Filled at Once

### What I Learned From PV1

- Wanted to Identify Plays Within a Possession
- Plays Categorized Series / Set
  - Set is Variation on Series ("Parameterized Plays")
  - **E**.g.
    - Series: Thumbs
    - Sets: Up, Down, Circle
    - Plays: Thumbs Up, Thumbs Down, Thumbs Circle
    - CS Paradigm: Thumbs(Up), Thumbs(Down), Thumbs(Circle)
  - 1, 2 Notation
    - o EO1 = Early Offense Series
    - o EO2 = Early Offense Set
  - ST (Special Teams) Missing

The Capstone Experience

Huge Impact On Design

[1 of 2]

### What I Learned From PV1

- Results Coded
  - XN Missed N Pointer (X1, X2, X3)
  - ON Made N Pointer (01, 02, 03)
  - FF Foul on the Floor
  - TO Time Out
  - Etc...
- Wanted to Record Notes on Defense
- Didn't Care About
  - Player Times
  - Video Clip Number (C#)

[2 of 2]

BB Stats Alpha V1          ■       · · · · 1 · · · · 1 · · · · 2 · · · · 1 · · · ·	D
Game Opponent Harvard University Location Boston Date July 4, 1776 Number 1776070401	Fie • P • T • C
P#ay       Roster         P# 48       1 00:00 00:00 Adams, John         1 12:34       2 00:00 00:00 Jefferson, Tom         C# 426       3 00:00 00:00 Washington, George         601 Run       4 00:00 00:00 Franklin, Ben         602 Gun       00:00 00:00 Hamilton, Alex         01 1-4 Screen       5 00:00 00:00 Hamilton, Alex         02 Low Post       551 SLOB         S52 Blah       Next Play         R Two Pointer       So, from         Feed to Adams. Washington always gets the rebound. Jefferson or Hamilton should take the shot.       Next Play         this to	■ • E <sup>I</sup> • O • S: • R • N • Ju • Ju • N (U • N F

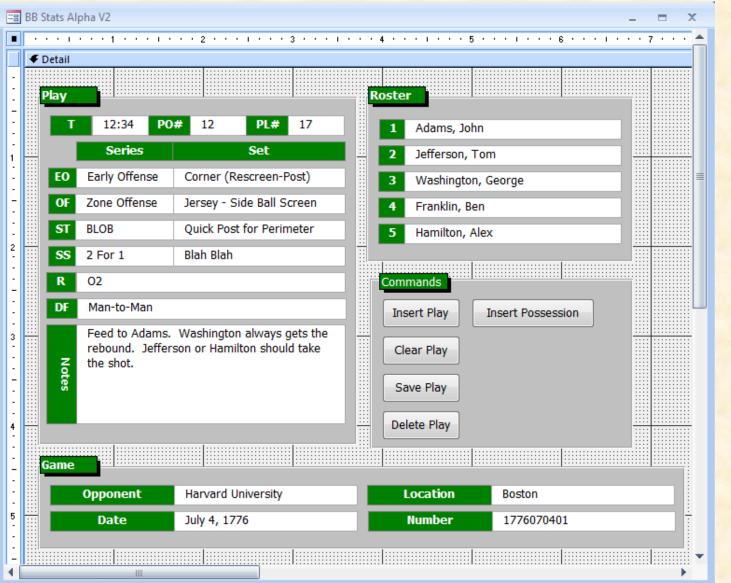
#### B PE PV1

#### lds

- Play Number
- Time
- Clip Number
- D Early Offense
- Offense
- **Special Situations**
- Result

#### ta Bene

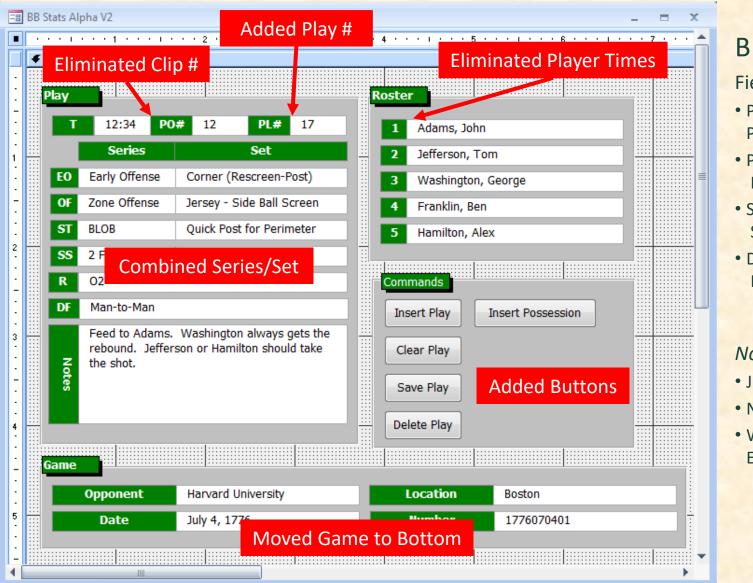
- st Screen Layout
- o Code Inderneath)
- ever Have All Entries lled at Once



#### BB PE PV2 Fields • PO# Possession Number • PL# Play Number • SS Special Situations • DF Defense

#### Nota Bene

- Just Screen Layout
- No Code (Underneath)
- Would **NOT** Have Entries in All Fields



#### BB PE PV2 Fields • PO# Possession Number • PL# Play Number • SS Special Situations

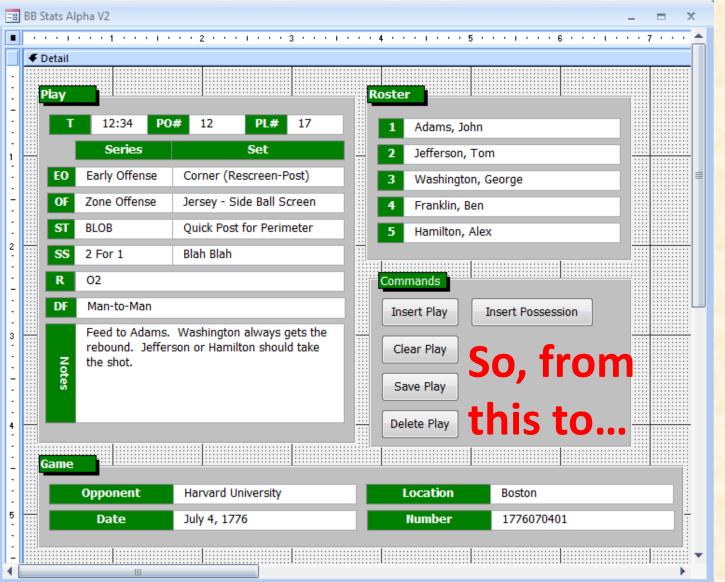
• DF Defense

#### Nota Bene

- Just Screen Layout
- No Code (Underneath)
- Would NOT Have Entries in All Fields

### What I Learned From PV2

- Wanted to Grade Execution of Plays
- Wanted to Record Player Steals and Assists (Remember this...)
- Needed to Navigate Plays and Possessions
- Wanted to See Running Total Score



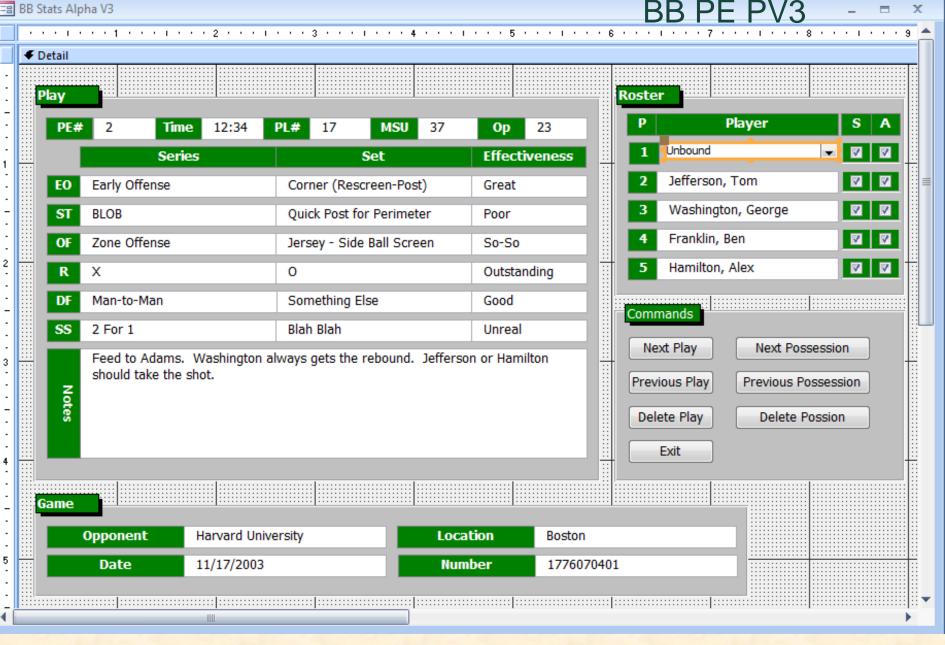
#### BB PE PV2 Fields

- PO#
   Possession Number
- PL#
   Play Number
- SS Special Situations
- DF Defense

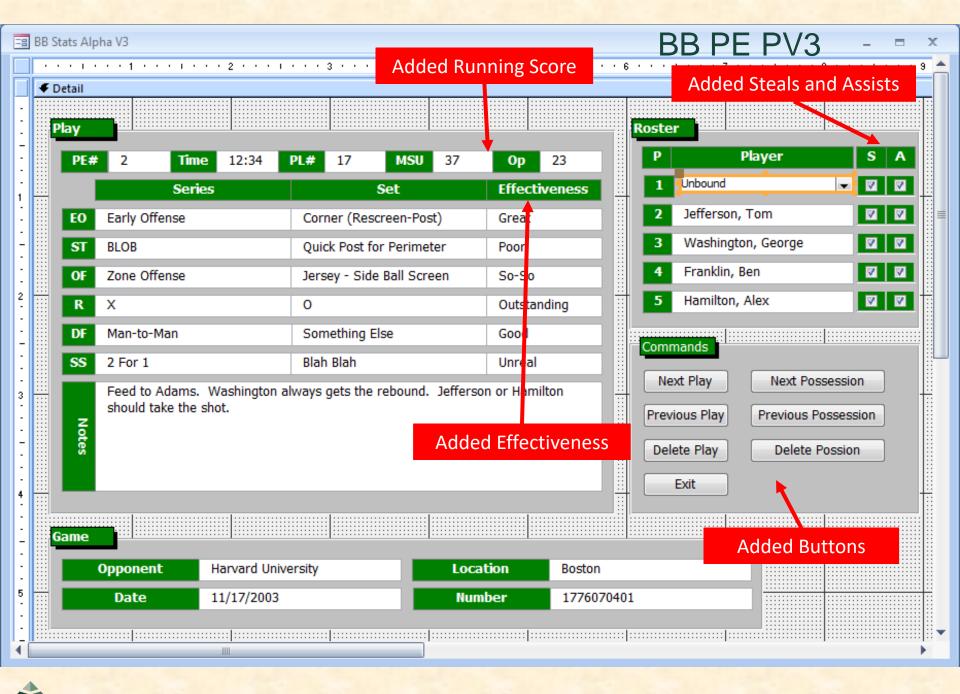
#### Nota Bene

- Just Screen Layout
- No Code (Underneath)
- Would NOT Have Entries in All Fields

#### == BB Stats Alpha V3



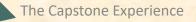
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# What I Learned From PV3

### • Wanted...

- Grades to Be A, B, C, D, F
- Results Associated With Players
- Series/Set Combined "Thumbs Up" Rather Than "Thumbs", "Up" or Thumbs(Up)
- To Record Player Rebound
- Will be used by...
  - Video Coordinator, GAs, and Managers
  - Very Comfortable with DVR Controls
- Did <u>NOT</u> Want to Record Player Steals or Assists (



#### 😑 BB Stats Alpha V3

2

3

5

ł

tail Y				Roster	
PE# 2	<b>Time</b> 12:34	PL# 17 MSU 37	<b>Op</b> 23	P Player	S A
	Series	Set	Effectiveness		
EO Early Off	ense	Corner (Rescreen-Post)	Great	2 Jefferson, Tom	<b>V</b>
ST BLOB		Quick Post for Perimeter	Poor	3 Washington, George	<b>V</b>
OF Zone Off	ense	Jersey - Side Ball Screen	So-So	4 Franklin, Ben	<b>V</b>
R X		0	Outstanding		<b>V</b>
DF Man-to-N	Man	Something Else	Good		
SS 2 For 1		Blah Blah	Unreal	Commands	
	Adams. Washington ake the shot.		son or Hamilton from s to	Next Play     Next Possession       Previous Play     Previous Possessi       Delete Play     Delete Possion       Exit     Exit	
ne Opponen	t Harvard Uni	versity	cation Boston		
Date	11/17/2003	Nu	imber 177607	70401	

BB PE PV3

х

== S	Season				_ = X	
Г	Game					
	Opponent	Harvard	Date	Thursday, July 04, 1776		
	Location	Boston, MA	Time	7:00 PM		
	Venue	Ivy League Challenge	TV	Not Yet		
			Game ID	17760704		
	Possessions					
ſ						
	Clock				0704	
	Period	1 Possession 0				
	Time 20	0:00 Play 0	Opponent	0		
	Series / Set			Roster		
	Early Offense			Result Rebnd #	Player	
	Offense			- 1	Adams, John 💌	
	Special Teams	BLOB, 3 Across		▼ 2	Jefferson, Tom 💌	
	Special Situations			▼ X3 ▼ 3	Washington, George 💌	
	Offense Result	X3 💽 Offense 0	Grade B	- 4	Franklin, Ben 🗨	
	Defense			- 5	Hamilton, Alex 🔍	
	Defense Result	Defense 0	Grade	Result Rebnd #	Player	
	Notes					
	Possession Buttor			Miscellaneous Buttons		
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	Play Buttons					
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	1010	A TO THE				

BB PE AV1 (Alpha Version 1) First Version With Code Not Much Implemented

E3 Season	1
Game	100
Opponent Harvard Date Thursday, July 04, 1776	
Location Boston, MA Time 7:00 PM	В
Venue Ivy League Challenge TV Not Yet	D
Game ID 17760704	(A
Possessions Associated Results	Fi
With Players	
Period 1 Possession 0 MSU 0 MSU 0 0 MSU 0	V
Series / Set	N
Early Offense  Result  Rebud  #  Player    Offense  I  Adams, John  I	100
Offense     I     I     Adams, John       Special Teams     BLOB, 3 Across     I     I	Im
Special Situations X3 Vashington, George V	
Offense Result X3 🔍 Offense Grade B 🔍 🔍 4 Franklin, Ben 🔍	
Defense S Hamilton, Alex	
Defense Result Defense Cade Result Rebnd # Player	
Changed Grading to A, B, C, D, F	
Added Rebound	
Possession Buttons Deleted Steals and Assists	
Play Buttons Changed Buttons to DVR-Style	
Record: H 4 1 of 6  H H K No Filter Search	
	-

BB PE AV1 (Alpha Version 1) First Version With Code Not Much Implemented

# What I Learned From Alpha 1

- Entering a Play
  - Some Things Calculated Automatically

     Play/Possession Number
    - o Score
  - Most Things Entered With Mouse Via Pull-Down Menus
     Series / Set
    - o Result
  - But Time Entered With Keyboard Via Typing Numbers
- Need
  - Mouse-Only Input
  - Easy Way to Adjust Clock

Season	_ = X
Game	
Opponent Harvard Date	Thursday, July 04, 1776
Location Boston, MA Time	7:00 PM
Venue Ivy League Challenge TV	Not Yet
Game ID	17760704
Possessions	
	Game ID 17760704
Period 1 Possession 0 MSU	
Time 20:00 Play 0 Opponent	0
Series / Set	Roster
Early Offense	Result Rebnd # Player
Offense	Adams, John
Special Teams BLOB, 3 Across	Jefferson, Tom
Special Situations	X3 Vashington, George V
Offense Result X3 Offense Grade B	
Defense	
Defense Result Defense Grade	Result Rebnd # Player
Notes	
Possession Buttons	Miscellaneous Buttons
	Σ 👬 🛄
Play Buttons	
Record: I4 4 1 of 6    H H2    K No Filter Search	

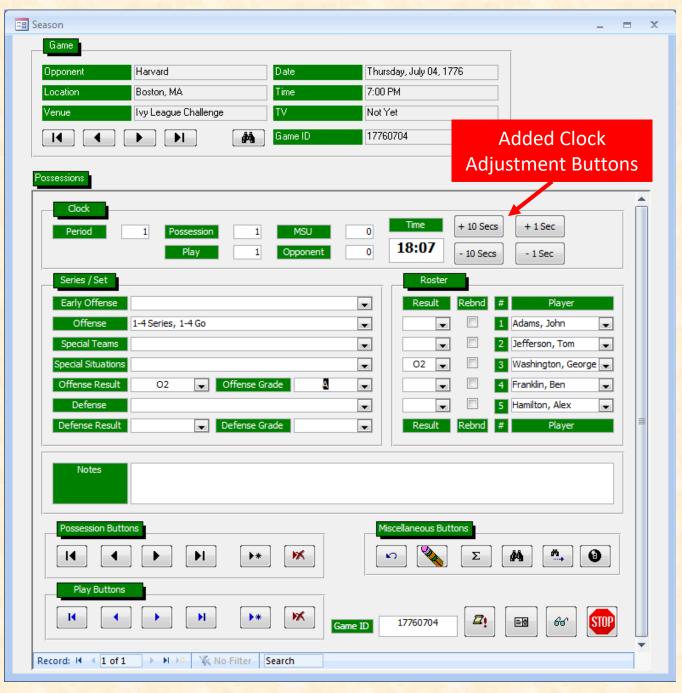
BB PE AV1 (Alpha Version 1) First Version With Code Not Much Implemented

So, from this to...

E Season	x
Game	
Opponent Harvard Date Thursday, July 04, 1776	
Location Boston, MA Time 7:00 PM	DE
Venue         Ivy League Challenge         TV         Not Yet	BE
I         Image: I	
	Still
Possessions	
	Imp
Period 1 Possession 1 MSU 0 Time + 10 Secs + 1 Sec	
Play 1 Opponent 0 18:07 - 10 Secs - 1 Sec	1.000
Series / Set	10.00
	10.000
Early Offense     Result     Rebind     #     Player       Offense     1-4 Series, 1-4 Go     Image: Comparison of the series of the	1.500
Special Teams 2 Jefferson, Tom	12 A 160
Special Situations O2	10000
Offense Result O2 Offense Grade 4 Franklin, Ben	A CONTRACTOR
Defense 5 Hamilton, Alex	a the second
Defense Result Defense Grade Result Rebnd # Player	
	1999
Notes	C. Starte
	12000
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Possession Buttons Miscellaneous Buttons	1000
	a state of the
Play Buttons	1.4.1
	1000
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	2-22
Record: I4  ≤ 1 of 1  → FI H H K No Filter Search	

### BB PE AV2 Still Not Much Implemented

The Capstone Experience



### BB PE AV2 Still Not Much Implemented

Game         Opponent       Harvard       Date       Thursday, July 04, 1776         Location       Boston, MA       Time       7:00 PM         Venue       Ivy League Challenge       TV       Not Yet         Image: Challenge       TV       Not Yet         Image: Challenge       Image: Challenge       17760704	BB PE BV1 (Beta Version 1)
Clock       Time       + 10 Secs       + 1 Sec         Period       1       Possession       1       MSU       0       Time       + 10 Secs       + 1 Sec         Play       1       Opponent       0       18:07       - 10 Secs       - 1 Sec         Series / Set       Roster       Result       Rebnd       #       Player         Offense       1-4 Series, 1-4 Go       1       Adams, John       1	
Offense 1-4 Series, 1-4 Go   Special Teams   Special Situations   Offense Result   O2   Offense Result   O2   Offense Result   Defense   Defense Result   Defense Grade     Result   Result   Result     Notes	
Possession Buttons Play Buttons Play Buttons K  I  I  I  I  I  I  I  I  I  I  I  I  I	

### **Basketball Prototypes Case Studies**

✓ Play Effectiveness

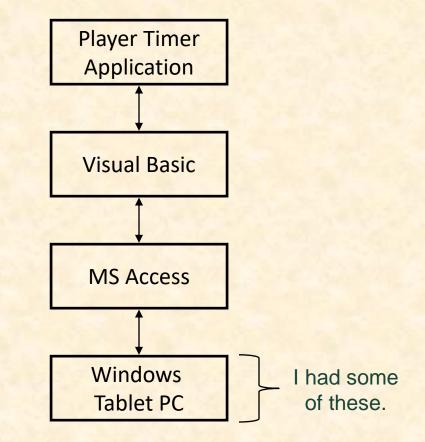
### Player Timer



# **Player Timer App**

- Keep Track of Player Times
- For Each Player Record
  - Minutes Played
     Game Clock Time
    - Consecutive & Total
  - Minutes Rested
     Wall Clock Time
     Consecutive
- Must
  - Be Usable on the Bench, During the Game
  - Be Portable and Not Require Electrical Outlet
  - Feel Like a Pen and a Clipboard

# **Player Timer App**



The Capstone Experience

### Risks

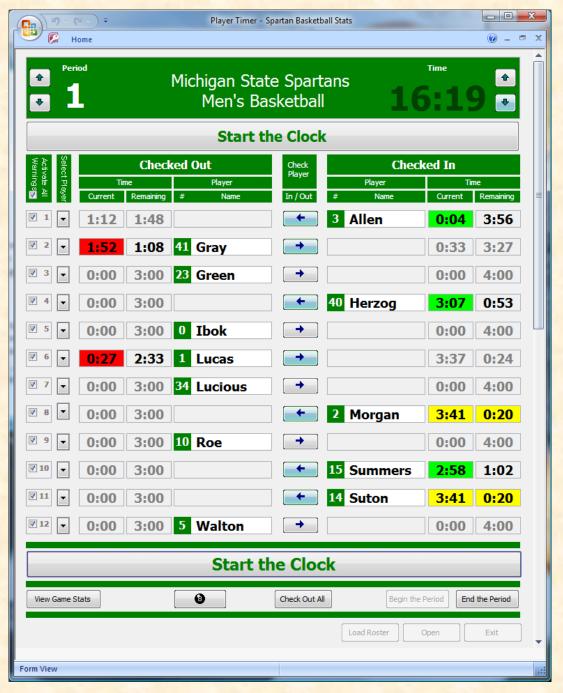
- Learning Basketball Processes
- Implementing Clocks in Windows?
  - Game Clock
  - Wall Clock
- Very Limited Screen Real Estate
  - Different Problem Than Mobile App
  - Must Feel Like Clipboard and Single Piece of Paper
- Computing and Displaying Cumulative Times
- Hidden Risk ("Danger Will Robinson!")

### **Player Timer Development**

- Knew Exactly What They Wanted, So...
- Designed "Final" Version
  - User Interface
  - Data Base Schema
  - Etc...
- Coded "Final" Version
- Bench Tested "Final" Version
- Field Tested "Final" Version
  - In Practice Scrimmage
  - Totally and Completely Unusable
- Scrapped "Final" Version UI and Started Over

Huge Mistake!

> Aside: Great Example of Front-End / Back-End Architecture and Design



#### **Player Timer**

## Software Updates

- Enable Clock Adjustments (While Clock Stopped)
- Enable Check In/Out By Touching
  - Check In/Out Button
  - Player Name
  - Player Slot
- Allow > 5 Players Checked In (While Clock Stopped)
- Enable Pending Check In (While Clock Running)
- Eliminate All Modal Dialog Boxes

### **Basketball Prototypes Case Studies**

### ✓ Play Effectiveness

### ✓ Player Timer



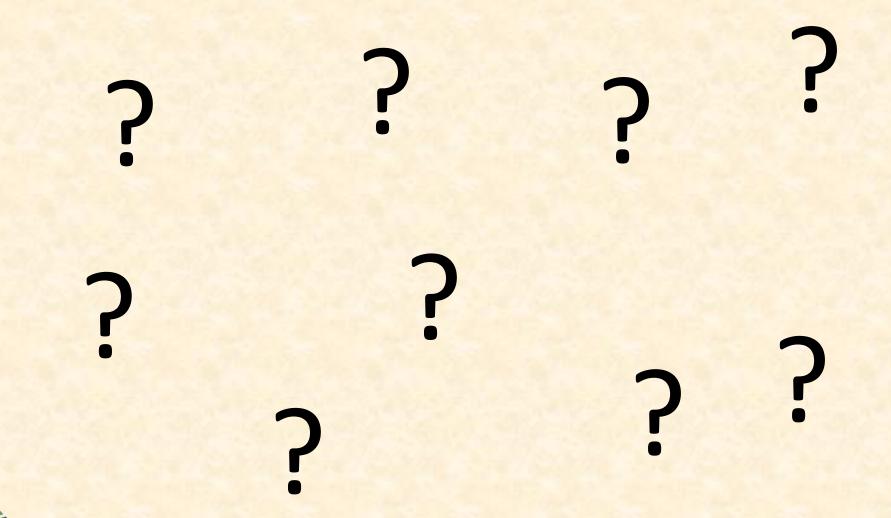
### **Risks and Prototypes**

### ✓ Risk

### ✓ Prototypes



# **Questions?**



The Capstone Experience

**Risks and Prototypes** 

### **Team Photos**

### [1 of 2]

### Team Amazon, Fall 2019





### **Team Photos**

Coordinated by James Monday, September 26 o 2:00 p.m. − 7:00 p.m. ○ Engineering <del>3540?</del> Dress **OBUSINESS** Preferred At Least Business Casual Team Coordinated

[2 of 2]

- Upcoming Meetings
  - = 09/08, Th: Risks and Prototypes
  - 09/13, Tu: Team Status Report Presentations
  - 09/15, Th: Project Plan
  - 09/20, Tu: Schedule and Teamwork
  - 09/22, Th: Team Project Plan Presentations
  - 09/27, Tu: Team Project Plan Presentations
  - 09/29, Th: Team Project Plan Presentations

10% of Team Grade

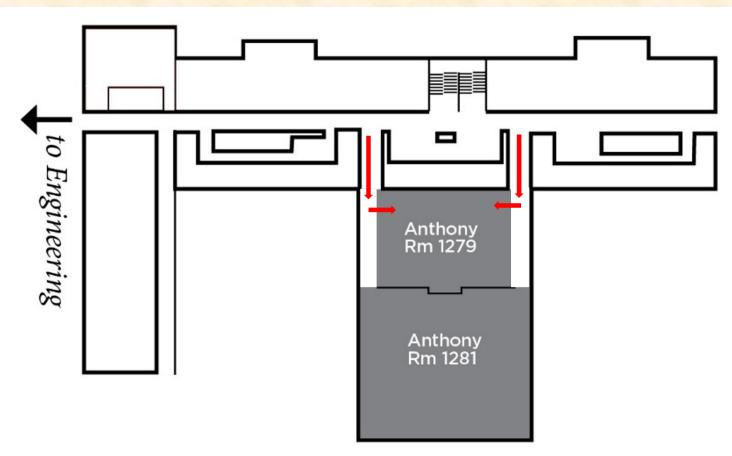
[1 of 5]

- Split-Hands Meetings
  - Used On Presentation Days

     09/13: Team Status Report Presentations
     09/22-09/29: Team Project Plan Presentations
  - Three Locations
    - Luke's Teams STEM 1130
    - o Griffin's Teams Anthony 1279
    - o Tommy's Teams Anthony 1320
  - Find the rooms in advance.
  - Attendance Taken As Usual Including Lateness

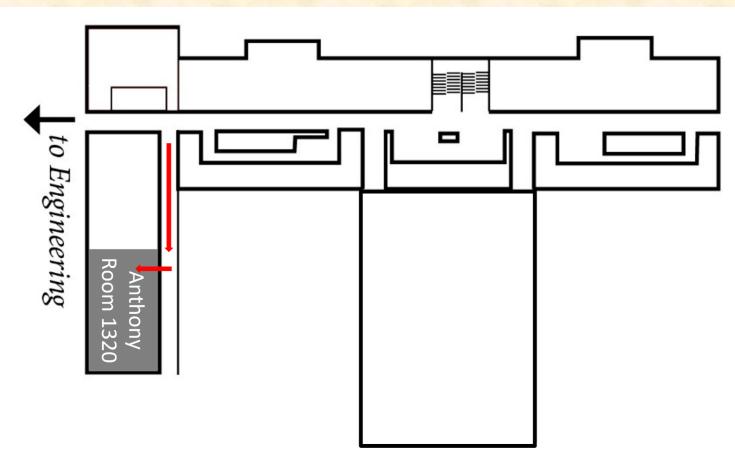
### [3 of 5]

Anthony 1279



[4 of 5]

Anthony 1320



- 09/13: Team Status Report Presentations

  - Split-Hands Meeting
  - Slide Deck Template Posted on Downloads Page

  - Read Submission Instructions Carefully
  - Due by 11:59 p.m. ET, Monday, 09/12
  - Upload Two Times to Microsoft Teams
    - To General Channel File Space
       Folder "Team Status Report Presentation Slide Decks"
    - To Capstone Team's Private Channel
  - Aggregated Slide Decks by TM
    - On TM's Laptop Used by All Teams
    - One or More Presenters Per Team
    - o Random Order

# Aside: Filenames

- Convention
  - Use all lowercase.
  - Delete non-numeric and non-alphabetic characters.
  - Replace blanks by dashes.
- Examples
  - team-amazon-status-report-presentation.pptx
  - team-kelloggs-status-report-presentation.pptx
  - team-roosevelt-innovations-knowledge-sciencestatus-report-presentation.pptx

#### **Delete this slide.**

# Read Me

### [1 of 2]

#### Presenting

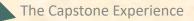
- The Status Report Presentations will be given on Tuesday, September 13.
- The purpose of your Status Report Presentation is for your team to demonstrate that you have made significant progress on your project. In particular, you will give status reports on a variety of things including the status of project sponsor contact, project sponsor meeting schedules, team meeting schedules, team organization, server systems and software, development systems and software, a brief description of the project, the status of your project plan and the initial identification of risks.
- The time limit for your presentation is 4.5 minutes, which will be strictly enforced. Practice your presentation to ensure that your team will finish within the allotted time of 4.5 minutes.
- We will meet in "split-hands" meetings. Luke's teams will meet in STEM 1130, Griffin's teams will meet in Anthony 1279, and Tommy's teams will meet in Anthony 1320.
- Dr. D. will combine the individual team slide decks into multiple slide decks, one for each TM.
- Your TM will have the combined slide decks on their laptop, which you will use for your presentation.
- Your team may have one or more presenters. All team members should turn their cameras on during their presentation.
- The order in which the teams will present will be random.

#### **Delete this slide.**

# **READ ME**

### [2 of 2]

- Creating and Editing
  - Use only the Windows version of Office 365.
  - You must use this PowerPoint slide deck template as is. Do not change the number of slides unless the instructions explicitly allow you to duplicate slides. Do not change the order of the slides. Do not change the styles. Do not edit the master slides.
  - Throughout the template, replace placeholders [...] with the appropriate information.
  - Edit the center footer by clicking the Header & Footer button on the Insert ribbon. Change [Team Name] in the footer to your company name as in "Team TechSmith Status Report Presentation". If necessary, extend the width of the center footer textbox on the master slide, making sure that you re-center the enlarged textbox.
  - Do not include any company confidential information in your presentation.
  - Delete every textbox that includes "Delete this textbox" and every slide that includes "Delete this slide."
- Submitting
  - All presentations must be submitted to us and to your client by 11:59 p.m., Monday, September 12.
  - Name your PowerPoint slide deck file as "team-[team-name]-status-report-presentation.pptx" replacing "[team-name]" with your team's name normalized by using all lower case, deleting non-numeric and non-alphabetic characters, and replacing blanks by dashes. Examples include "team-kelloggs-status-report-presentation.pptx" and "team-delta-dental-knowledgescience-1-status-report-presentation.pptx".
  - Upload your PowerPoint slide deck to the folder "Status Report Presentation Slide Decks" in our Microsoft Teams General Channel file space by 11:59 p.m., Monday, September 12. In addition, upload your slide deck to your team's private channel file space in case your slide deck is deleted by accident from the General Channel file space, and you need to prove that you did indeed upload your slide deck by the due date and time.
  - Email a copy of your slide deck to your client as well by 11:59 p.m., Monday, September 12. Do not cc us on that email.
     Include some professional text in the body of your email to practice being a professional and to avoid having your email sent to your project sponsor's junk folder.



MICHIGAN STATE UNIVERSITY

# Status Report Presentation [Project Title 36pt]

Team [Team Name 24pt] The Capstone [Experience [Team Member 2 16pt] [Team Member 3 16pt] [Team Member 4 16pt] [Team Member 5 16pt] [Team Member 6 16pt] Department of Computer Science and Engineering Michigan State University

Fall 2022



From Students... ...to Professionals

[1 of 4]

### [Project Title]

- Project Overview
  - Description Point 1
  - Description Point 2
  - Description Point 3
  - Description Point 4

### Project Plan Document

- Status Point 1
- Status Point 2
- Status Point 3
- Status Point 4

<u>Status</u> Information: Think clicking "<u>Status</u>" on an Amazon order.

- You bought this on Thursday, September 1. Helpful?
- We're going to send this to you. Satisfied?
- People who bought this also bought.... We good?
   Where the \$\*(%(\$\* is my order?

### Delete this textbox.

Include <u>status</u> information. What's the <u>status</u> of your project plan document? Have you started it? How much have you written? What percentage complete is it? **Delete this textbox and the brace to the left.** 

### [Project Title]

- Server Systems / Software
  - Description &/or Status Point 1
  - Description &/or Status Point 2
  - Description &/or Status Point 3
- Development Systems / Software
  - Description &/or Status Point 1
  - Description &/or Status Point 2
  - Description &/or Status Point 3

Include status information.

Are all systems up and running?

Have you tested everything?

Delete this textbox and the brace to the left.

[2 of 4]

[3 of 4]

### [Project Title]

- Client Contact
  - Status Point 1
  - Status Point 2
- Team Meetings
  - Status Point 1
  - Status Point 2
- Team Organization
  - Description Point 1
  - Description Point 2

Include status information.
Have you talked with/met with your client?
Have you scheduled a weekly conference call? When?
Have you scheduled an in-person meeting? When?
How many times has your team met so far?
Have you scheduled team meetings? How often?
Delete this textbox and the brace to the left.

Include status information.

Who's doing what?

Delete this textbox and the brace to the left.

### [4 of 4]

### [Project Title] Risks

- Risk 1
  - Description
  - Mitigation
- Risk 2
  - Description
  - Mitigation
- Risk 3
  - Description
  - Mitigation
- Risk 4
  - Description
  - Mitigation

A "Risk" is a significant task that you need to accomplish that you currently do not know how to do. Usually, a risk is a "showstopper," meaning if you cannot complete the task, you cannot complete your project.

"Mitigation" for a particular risk is your plan for eliminating that risk; that is, your plan for figuring out how to accomplish the task.

List only "real" risks. For example, learning new computer languages is **not** a risk for an MSU CSE student.

Give "useful" explanations of how you are going to mitigate each risk. For example, "we will learn how to do it" is **not** a useful explanation.

#### Delete this textbox.