

VERBO CHURCH CUENCA

ATTENDANCE TRACKER

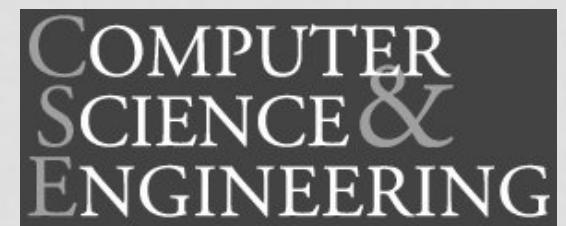
ISA V

Cassie Long
John Luscombe
Evan Miyakawa
Edric Yu
Joyce Yu

SYS 390

Information Systems Analysis
Dr. Nurkkala
Dr. Stanley

December 15, 2016



AGENDA

Business Proposal

- The Customer
- Other Stakeholders
- Motivation
- Buy Alternatives
- Build Alternative
- Recommendation

System Requirements Specification

- User Roles
- Entity Relationship Diagram
- Attendance-Tracking Feature
- Home Church Map Feature
- Non-Functional Requirements
- Collaborating Systems & Other Software
- Schedule

BUSINESS PROPOSAL: AGENDA

Business Proposal

- The Customer
- Other Stakeholders
- Motivation
- Buy Alternatives
- Build Alternative
- Recommendation

BUSINESS PROPOSAL: AGENDA

Business Proposal

- **The Customer**
- Other Stakeholders
- Motivation
- Buy Alternatives
- Build Alternative
- Recommendation

THE CUSTOMER

JOYCE YU

BUSINESS PROPOSAL

THE CUSTOMER

- Verbo Church Cuenca
 - John and Marilyn Guido
 - Joel and Jonathan Guido



VERBO
IGLESIA CRISTIANA



THE CUSTOMER: VISION AND PURPOSE

VISION STATEMENT

"To grow together in covenant relationship under the Lordship of Jesus Christ."

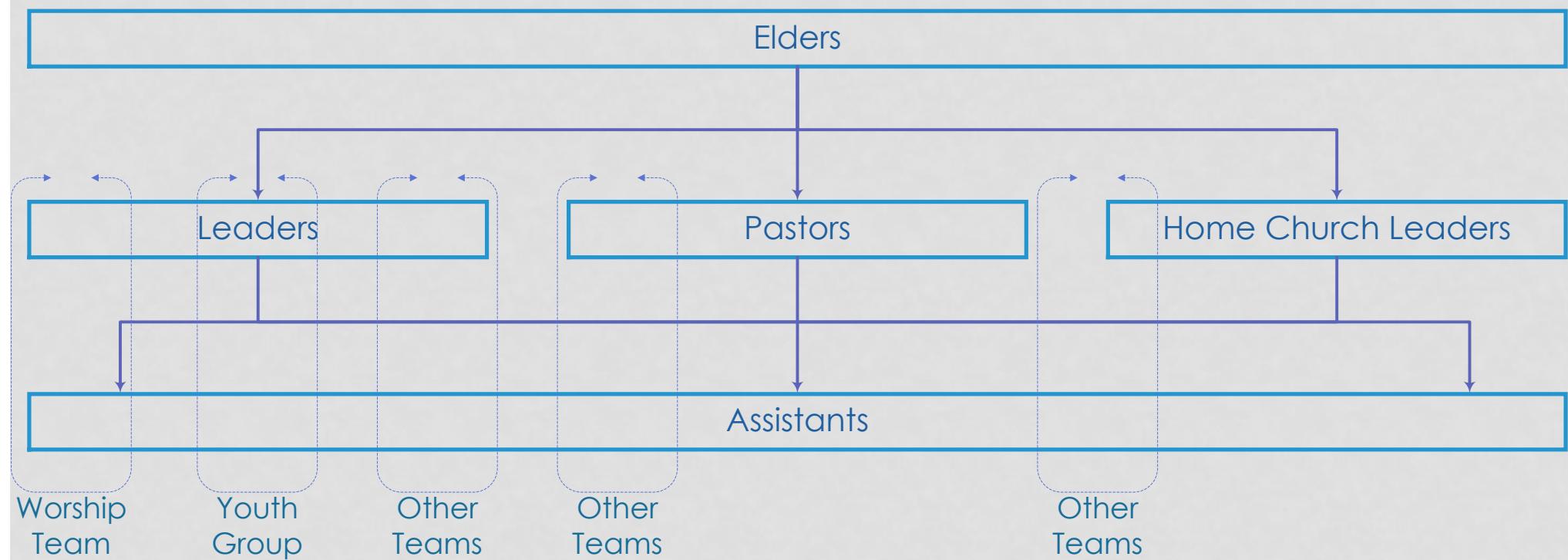
PURPOSE STATEMENT

"To fulfill our individual and corporate calling to bring God's love to the world through evangelism discipleship and loving service."



CUSTOMER ORGANIZATION CHART

Verbo Church Cuenca Organization Chart



QUESTIONS?

BUSINESS PROPOSAL: AGENDA

Business Proposal

- The Customer
- **Other Stakeholders**
- Motivation
- Buy Alternatives
- Build Alternative
- Recommendation

OTHER STAKEHOLDERS

EDRIC YU

BUSINESS PROPOSAL

OTHER STAKEHOLDERS

- Home Church Leaders of Verbo Cuenca
- Members of Verbo Cuenca
- Visitors of Verbo Cuenca



QUESTIONS?

BUSINESS PROPOSAL: AGENDA

Business Proposal

- The Customer
- Other Stakeholders
- **Motivation**
- Buy Alternatives
- Build Alternative
- Recommendation

MOTIVATION

JOHN LUSCOMBE
BUSINESS PROPOSAL

MOTIVATION

- Main motivation: Verbo's current system is *extremely* insufficient for their needs
- Microsoft Excel
 - Limited
 - Unintuitive
 - Inconsistent
 - Too many steps
- Key questions cannot be answered
 - Is there growth in the home churches?
 - Do people in the home churches stick around?

KT SITUATION APPRAISAL

Concern	Clarify Concern	Severity	Urgency	Growth
Too little information about each home church	Home church leaders are not inputting attendance Not obtaining enough statistics about who is attending	Moderate Some home churches have not filled out attendance data for six months	Same	Increase As the home churches grow, there is greater lack of information
Current attendance tracker is not user friendly	Volunteers are not computer savvy PlanningCenter Current system is an Excel spreadsheet Group leaders are taking out names and adding names Groups is too expensive - \$250 a month	High Current system is preventing users from optimum use of attendance tracker	Same	Flat
Home church information is not readily accessible to community	Have to talk to church members to find home churches No easy access to calendar of events	Moderate	Same	Flat

KT SITUATION APPRAISAL (CONT.)

Concern	Clarify Concern	Severity	Urgency	Growth
Current means of communication within home churches is lacking functionality	Currently using WhatsApp, an external application	Low Current system has no negative effects	Same	Increase As the church grows, communication difficulties increase
	More difficult to share documents and PDFs of sermons			
Reluctance to learning new technology	Older generation is not tech savvy	Low As long as the new system is good, the church will implement it anyway	Less	Decrease Over time people become more comfortable with technology, and there is an increasing amount of young people
	Community is not used to technological change			
Current church website is not fully functional	Still being developed – anticipated launch in November	Moderate	Same	Increase As culture shifts toward technology-centeredness, expectation for functional website increases

QUESTIONS?

BUSINESS PROPOSAL: AGENDA

Business Proposal

- The Customer
- Other Stakeholders
- Motivation
- **Buy Alternatives**
- Build Alternative
- Recommendation

BUY ALTERNATIVES

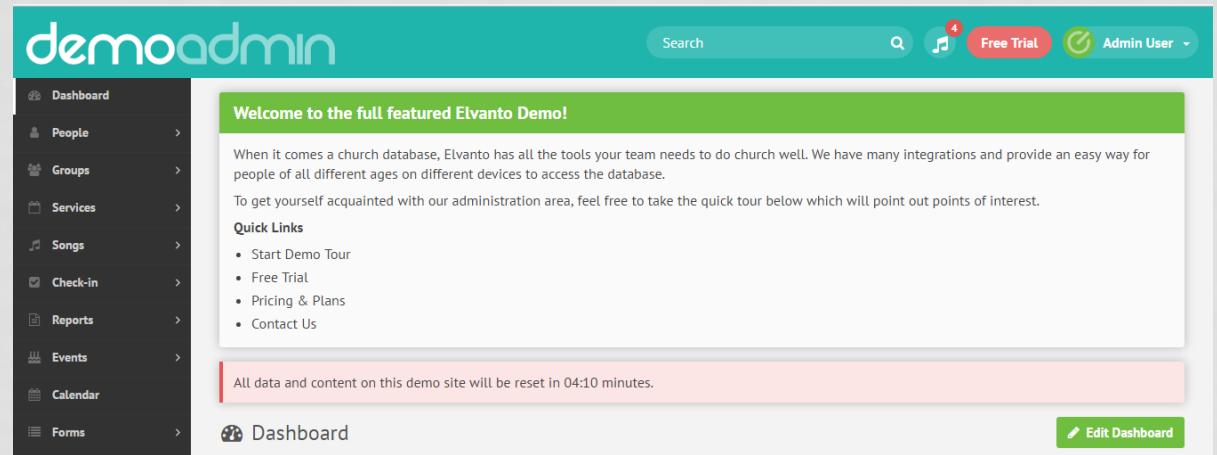
EVAN MIYAKAWA
BUSINESS PROPOSAL

BUY ALTERNATIVES

Goal: Finding already existing alternative solutions
to fit customer requirements

ELVANTO

- Popular church management service
 - Built to be an “All-in-one” tool
 - Cloud-based



The screenshot shows the Elvanto demo admin interface. At the top, there's a teal header bar with the text "demoadmin". On the right side of the header are a search bar, a notification badge with the number "4", a "Free Trial" button, and an "Admin User" dropdown. The main content area has a light gray background. On the left is a dark sidebar menu with the following items: Dashboard, People, Groups, Services, Songs, Check-in, Reports, Events, Calendar, and Forms. The "Dashboard" item is currently selected. To the right of the sidebar is a green banner with the text "Welcome to the full featured Elvanto Demo!". Below the banner, there's a paragraph of text about the service's features, followed by a "Quick Links" section with four bullet points: "Start Demo Tour", "Free Trial", "Pricing & Plans", and "Contact Us". At the bottom of the page, there's a pink footer bar with the text "All data and content on this demo site will be reset in 04:10 minutes." and a "Edit Dashboard" button.

ELVANTO

- Pros
 - Extensive database capabilities
 - Included “courses” section for members
 - Roles and Permissions defined
 - Easy to navigate
 - Home church and leader editing
 - Home church calendar viewing capabilities
 - Mobile app

ELVANTO

- Cons
 - Very expensive
 - \$2,592 a year
 - Lack of home church map
 - Integrating ScribbleMaps
 - No tangible benefits



ELVANTO

KT Decision Analysis				
Alternative	Elvanto			
MUSTS	Comments	Y/N		
Track Attendance	Enter attendance in on site			Y
User-Friendly	Visually pleasing, easy to navigate			Y
Member Database	Can add members and their info			Y
Home Church Map	Map provided through ScribbleMaps			Y
Wants	Weight	Comments	Score	Weighted
Easy to add new members	8	Adding new members simple	10	80
Detailed database	11	Easy to navigate and filter	10	110
Demographics for members	11	Lots of demographics options	10	110
Keep track of classes	4	Has specific "courses" section for each person	10	40
Add new home churches/leaders	11	Easy to add home churches and leaders	10	110
Generate stats on churches	7	Each group online displays statistics automatically	10	70
Maintainable home church map	10	Easy using ScribbleMaps separate app	10	100
Calendar for each Home Church	5	Can make each event viewable to a specific group	10	50
Simple attendance tracking	11	Easy to find group online and enter attendance	10	110
Different roles/permission levels available	6	Super admin, group leader, and member roles available	8	48
Mobile Device	5	Elvanto free mobile app available	10	50
Easy to understand, operational for all users	11	Quick to learn, layout professional	10	110
Final Score	100			988

ELVANTO

Cost Benefit Analysis - Elvanto							
		Year 0	Year 1	Year 2	Year 3	Year 4	Year 5
Discount Rate (8%)		1	0.925925926	0.84175084	0.76522804	0.69566185	0.63241987
Annual Cost	<i>Elvanto</i>		(\$2,592)	(\$2,592)	(\$2,592)	(\$2,592)	(\$2,592)
	<i>ScribbleMaps</i>		(\$100)	(\$100)	(\$100)	(\$100)	(\$100)
Benefits	<i>None</i>		\$0	\$0	\$0	\$0	\$0
Cash Flow			(\$2,692)	(\$2,692)	(\$2,692)	(\$2,692)	(\$2,692)
Present Value			(\$2,692)	(\$2,492.58)	(\$2,265.98)	(\$2,059.99)	(\$1,872.71)
Net Present Value			(\$13,086)				

PLANNING CENTER GROUPS

- Church group management software
 - Designed specifically to organize groups within church
 - Comes with access to “Groups” and “People”
 - Cloud-based

The screenshot shows the Planning Center Groups software interface. At the top, there's a navigation bar with tabs for 'Groups', 'Properties', 'Notifications', and 'People'. A user profile for 'Evan Thomas Miyakawa' is on the right. Below the nav bar, a message says 'New: Group reports are now available! Read the announcement'. There are dropdowns for 'All groups (any type)' and 'Manage Group Types', and a 'Groups Directory' button. A main menu bar has tabs for 'Groups' (which is selected), 'Members', 'Reports', 'Calendar', and 'Resources'. Below this is a 'Filter by Property' dropdown. The main content area displays four cards: 'New Member Class Spring' (orange background), 'New Member Class Fall' (purple background), 'Board of Directors' (green background), and 'Financial Freedom' (brown background). Each card has a small icon and a 'View' button.



October 2, 2017

ISA V: Business Proposal – Buy Alternatives

28

PLANNING CENTER GROUPS

- Pros
 - Group management capabilities
 - Groups can be public or private
 - Large members database
 - Built-in attendance
 - Mobile app
 - Home church map
 - Choice between exact or general location listing

PLANNING CENTER GROUPS

- Cons
 - Few demographic options
 - Can't generate group attendance stats
 - Attendance only viewable by person per meeting
 - Roles not as defined
 - Higher annual fee at \$1,788

PLANNING CENTER GROUPS

KT Decision Analysis	
Alternative	Planning Center Groups
MUSTS	Comments
Track Attendance	Scheduled email sent to leader for attendance
User-Friendly	Simplistic design
Member Database	Can add members and their info
Home Church Map	Link provided with map of group locations

Wants	Weight	Comments	Score	Weighted
Easy to add new members	8	Adding new members simple	10	80
Detailed database	11	Easy to navigate and filter	10	110
Demographics for members	11	Limited on what demographics can be entered	5	55
Keep track of classes	4	Can do using workflows tool	8	32
Add new home churches/leaders	11	Easy to add home churches and leaders	10	110
Generate stats on churches	7	Can only view attendance by person for each specific meeting	2	14
Maintainable home church map	10	Has built-in map function that can be viewed by anyone	10	100
Calendar for each Home Church	5	Calendar can be public or private to group	8	40
Simple attendance tracking	11	System sends email to leader at start of meeting for easy attendance link	10	110
Different roles/permission levels available	6	Can assign specific members to be group leaders and have more permissions	8	48
Mobile Device	5	Planning Center free mobile app available	10	50
Easy to understand, operational for all users	11	Easy to find everything needed	10	110
Final Score	100			859

PLANNING CENTER GROUPS

<i>Cost Benefit Analysis - Planning Center Groups</i>		Year 0	Year 1	Year 2	Year 3	Year 4	Year 5
Discount Rate (8%)		1	0.925925926	0.84175084	0.76522804	0.69566185	0.63241987
Annual Cost	<i>Planning Center</i>		(\$1,788)	(\$1,788)	(\$1,788)	(\$1,788)	(\$1,788)
Benefits	<i>None</i>		\$0	\$0	\$0	\$0	\$0
Cash Flow			(\$1,788)	(\$1,788)	(\$1,788)	(\$1,788)	(\$1,788)
Present Value			(\$1,788)	(\$1,656)	(\$1,505)	(\$1,368)	(\$1,244)
Net Present Value			(\$8,691)				(\$1,131)

MINISTRY TRACKER

- Full-feature, affordable church management software
 - Plethora of tools to aid church administration
 - Very low cost
 - Cloud-based

The screenshot displays the Ministry Tracker software interface. At the top, there is a navigation bar with links for Dashboard, People, Families, Groups, Events, Community, Financial, Reports, Communication, Resources, Tasks, Options, Account, and Help. The URL http://demo.ministrytracker.com is visible in the address bar. On the right side, there is a user dropdown menu showing "Junior High Ministry". Below the navigation bar, there are several modules:

- Today's Events:** Shows events for "Wednesday Youth" from 6:00 PM - 7:00 PM.
- Birthdays:** Shows a list of birthdays for December, including "Goofy McManus" on 12/06 (age 49) and "Peter Fitzsimons" on 12/07 (age 16).
- New People:** Shows a new addition, "Joan Buttelle", added on 12/1/2016.
- Anniversaries:** Shows a list of anniversaries for December.
- Partner with us:** Includes links to follow on Twitter (@ministrytracker) and write a review on Capterra.
- WEEKLY HINT:** A yellow box containing text about new features.
- SYSTEM NEWS:** A yellow box containing "Holiday Support Availability" and the date "11/21/2016 12:00 AM".

October 2, 2017

ISA V: Business Proposal – Buy Alternatives

33

MINISTRY TRACKER

- Pros
 - Affordable cost
 - Lots of features
 - Custom Demographic fields
 - Mobile Capabilities

MINISTRY TRACKER

- Cons
 - Takes time to learn
 - Lack of specific home church calendar
 - User roles not flexible
 - No home church map
 - Integrate ScribbleMaps



MINISTRY TRACKER

KT Decision Analysis		Ministry Tracker		
Alternative	MUSTS	Comments	Y/N	
Track Attendance	Choose attendees on site		Y	
User-Friendly	Not hard to master once learned		Y	
Member Database	Can add members and their info		Y	
Home Church Map	Map provided through ScribbleMaps		Y	
Wants	Weight	Comments	Score	Weighted
Easy to add new members	8	Adding new members simple	10	80
Detailed database	11	Easy to navigate and filter	10	110
Demographics for members	11	Can make custom demographics	10	110
Keep track of classes	4	Would use custom demographic fields	10	40
Add new home churches/leaders	11	Easy to add home churches, give leaders staff access	10	110
Generate stats on churches	7	Can't show graph of group attendance, but lots of other options	8	56
Maintainable home church map	10	Easy using ScribbleMaps separate app	10	100
Calendar for each Home Church	5	Can only list events on whole church calendar	5	25
Simple attendance tracking	11	Have to enter each person's name and select them for attendance	7	77
Different roles/permission levels available	6	Would have to give group leaders access to whole system, like admins	5	30
Mobile Device	5	Number of options for mobile use	10	50
Easy to understand, operational for all users	11	Graphics are not great on site	7	77
Final Score	100			865

MINISTRY TRACKER

Cost Benefit Analysis - Ministry Tracker		Year 0	Year 1	Year 2	Year 3	Year 4	Year 5
Discount Rate (8%)		1	0.925925926	0.84175084	0.76522804	0.69566185	0.63241987
Annual Cost	<i>Ministry Tracker</i>		(\$449)	(\$449)	(\$449)	(\$449)	(\$449)
	<i>ScribbleMaps</i>		(\$100)	(\$100)	(\$100)	(\$100)	(\$100)
Benefits	<i>None</i>		\$0	\$0	\$0	\$0	\$0
Cash Flow			(\$549)	(\$549)	(\$549)	(\$549)	(\$549)
Present Value			(\$549)	(\$508.32)	(\$462.11)	(\$420.10)	(\$381.91)
Net Present Value			(\$2,669)				(\$347.19)

QUESTIONS?

BUSINESS PROPOSAL: AGENDA

Business Proposal

- The Customer
- Other Stakeholders
- Motivation
- Buy Alternatives
- **Build Alternative**
- Recommendation

BUILD ALTERNATIVE

CASSIE LONG
BUSINESS PROPOSAL

BUILD ALTERNATIVE: miVERBO

- Custom-built option: miVERBO
 - Designed and developed by Taylor students
 - Zero-defects quality approach
 - Platform as a service

miVERBO

The image shows two side-by-side screenshots of a mobile application interface for "verbocuenca.org".

Screenshot 1 (Left): Home Screen

- Header: AT&T, 10:10 AM, 93% battery.
- URL: verbocuenca.org
- Logo: VERBO MINISTRIES CUENCA
- Section: Home Church Leader Login
- Fields: Username, Password
- Checkboxes: Keep me logged in on this device
- Buttons: Login, +

Screenshot 2 (Right): Attendance Screen

- Header: AT&T, 10:10 AM, 93% battery.
- URL: verbocuenca.org
- Logo: VERBO MINISTRIES CUENCA
- Navigation: My Home Churches (selected), Help, Settings
- Text: Today is December 15, 2016, Back
- Text: Taking Attendance for December 6, 2016
- Text: check all, uncheck all, check all starred
- Table:

First Name	Last Name
<input checked="" type="checkbox"/> ★ David	Garcia
<input type="checkbox"/> ★ Carlos	González
<input type="checkbox"/> ★ Daniela	Rodríguez
<input checked="" type="checkbox"/> ★ Alejandra	Fernández
<input checked="" type="checkbox"/> ★ Robert	Fernández
<input checked="" type="checkbox"/> ★ Maria	Pérez
- Buttons: Record Attendance, +

BUILD ALTERNATIVE: miVERBO

- Pros
 - **Zero defects**
 - Every single need is fully integrated into the system
 - All functional and non-functional requirements met
 - User-friendly
 - Culturally accessible
 - Cost effective
 - Mobile application
- Cons
 - Developed by students not professionals

BUILD ALTERNATIVE: miVERBO

KT Decision Analysis				
Alternative	Custom Build - miVerbo			
MUSTS	Comments		Y/N	
Track Attendance	Attendance entered on phone app or online		Y	
User-Friendly	Very easy to interact with, simplistic design		Y	
Member Database	Can add members and their info		Y	
Home Church Map	Maps built in		Y	
Wants	Weight	Comments	Score	Weighted
Easy to add new members	8	Adding new members simple	10	80
Detailed database	11	Easy to navigate and filter	10	110
Demographics for members	11	All needed demographics are included	10	110
Keep track of classes	4	Classes are included in each profile	10	40
Add new home churches/leaders	11	Easy to add home churches and leaders	10	110
Generate stats on churches	7	All needed statistics and graphs can be viewed	10	70
Maintainable home church map	10	Has built-in map function that can be viewed by anyone	10	100
Calendar for each Home Church	5	Has separate calendars for each home church, viewable by only that church	10	50
Simple attendance tracking	11	Phone app allows for easy attendance tracking, can be entered or modified online as well	10	110
Different roles/permission levels available	6	Has Visitor, Member, Home Church Leader, and Administrator roles	10	60
Mobile Device	5	Mobile App available and easy to use	10	50
Easy to understand, operationable for all users	11	Easy to operate and learn	10	110
Final Score	100			1000

BUILD ALTERNATIVE: miVERBO

Cost Benefit Analysis - miVerbo			Year 0	Year 1	Year 2	Year 3	Year 4	Year 5
Discount Rate (8%)			1	0.925925926	0.84175084	0.76522804	0.69566185	0.63241987
Annual Cost	Maintenance			(\$324)	(\$324)	(\$324)	(\$324)	(\$324)
	Heroku			(\$900)	(\$900)	(\$900)	(\$900)	(\$900)
Benefits	None			\$0	\$0	\$0	\$0	\$0
Cash Flow				(\$1,224)	(\$1,224)	(\$1,224)	(\$1,224)	(\$1,224)
Present Value				(\$1,224)	(\$1,133.33)	(\$1,030.30)	(\$936.64)	(\$851.49)
Net Present Value				(\$5,950)				(\$774.08)

QUESTIONS?

BUSINESS PROPOSAL: AGENDA

Business Proposal

- The Customer
- Other Stakeholders
- Motivation
- Buy Alternatives
- Build Alternative
- **Recommendation**

RECOMMENDATION

CASSIE LONG
BUSINESS PROPOSAL

RECOMMENDATION

Alternatives	KTDA Score	Net Present Value
Elvanto	988	(\$13,086)
Planning Center	859	(\$8,691)
Ministry Tracker	865	(\$2,669)
miVerbo	1000	(\$5,950)

- ISA V recommends the build option, miVerbo
 - Cost effective
 - Meets all requirements
 - Personalized to the customer's wants

miVERBO

QUESTIONS?

AGENDA

Business Proposal

- The Customer
- Other Stakeholders
- Motivation
- Buy Alternatives
- Build Alternative
- Recommendation

System Requirements Specification

- User Roles
- Entity Relationship Diagram
- Attendance-Tracking Feature
- Home Church Map Feature
- Non-Functional Requirements
- Collaborating Systems & Other Software
- Schedule

SYSTEM REQUIREMENTS SPEC.: AGENDA

System Requirements Specification

- User Roles
- Entity Relationship Diagram
- Attendance-Tracking Feature
- Home Church Map Feature
- Non-Functional Requirements
- Collaborating Systems & Other Software
- Schedule

SYSTEM REQUIREMENTS SPEC.: AGENDA

System Requirements Specification

- **User Roles**
- Entity Relationship Diagram
- Attendance-Tracking Feature
- Home Church Map Feature
- Non-Functional Requirements
- Collaborating Systems & Other Software
- Schedule

USER ROLES

JOHN LUSCOMBE

SYSTEM REQUIREMENTS SPECIFICATION

USER ROLES

User Title	Role
Visitor	Any web user without a record in the database
Member	An attendee of Verbo Church, but not necessarily a home church
	Has record in the database
	Does not have user account
Home Church Leader	A leader of at least one home church
	Has user account
	Has limited permissions
Administrator	Only church leaders and information technology (IT) support
	Has unlimited permissions
User	Encompassing term for both Home Church Leaders and Administrators

QUESTIONS?

SYSTEM REQUIREMENTS SPEC.: AGENDA

System Requirements Specification

- User Roles
- **Entity Relationship Diagram**
- Attendance-Tracking Feature
- Home Church Map Feature
- Non-Functional Requirements
- Collaborating Systems & Other Software
- Schedule

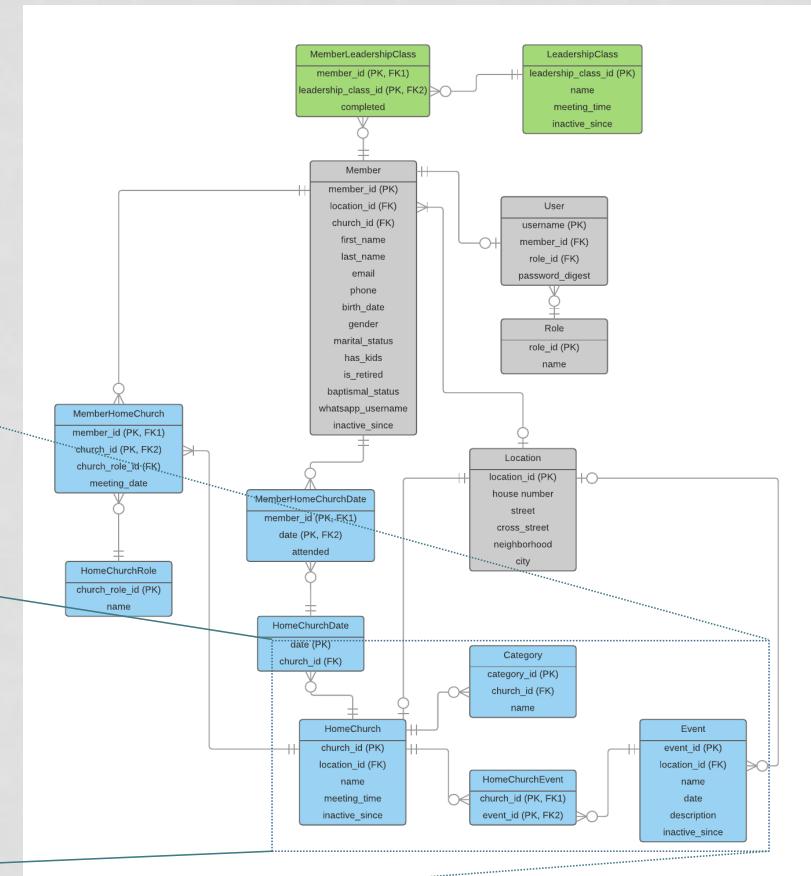
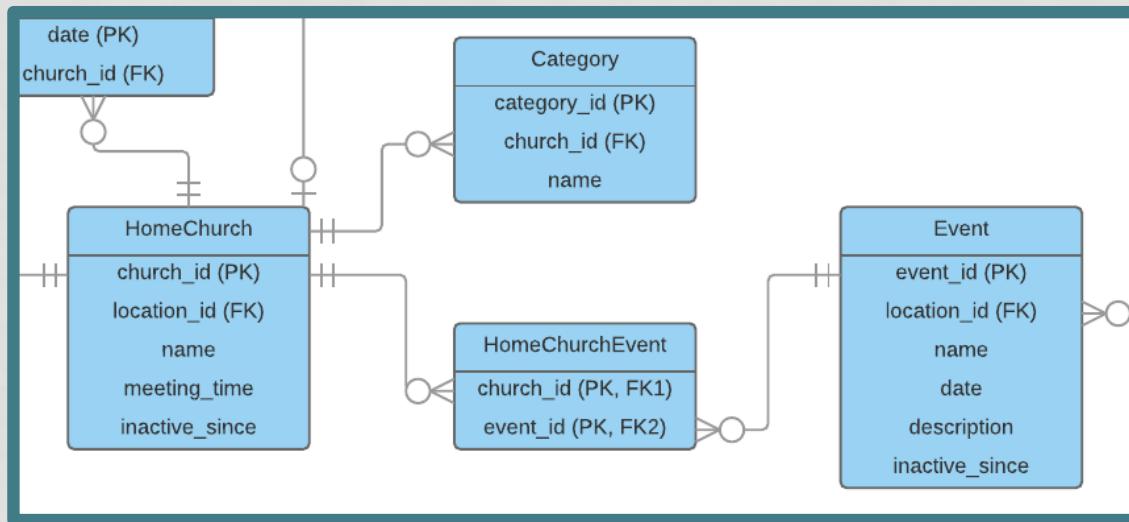
ENTITY RELATIONSHIP DIAGRAM

JOHN LUSCOMBE

SYSTEM REQUIREMENTS SPECIFICATION

ENTITY RELATIONSHIP DIAGRAM

- Entities
- Attributes
- Relationships



QUESTIONS?

SYSTEM REQUIREMENTS SPEC.: AGENDA

System Requirements Specification

- User Roles
- Entity Relationship Diagram
- **Attendance-Tracking Feature**
- Home Church Map Feature
- Non-Functional Requirements
- Collaborating Systems & Other Software
- Schedule

ATTENDANCE-TRACKING FEATURE

EDRIC YU

SYSTEM REQUIREMENTS SPECIFICATION

ATTENDANCE-TRACKING FEATURE

- View attendance history of member
- Make an attendance record for home church
- System Response Table
- Use Case
- Data Description
- Data Flow Diagram
- Process Specification
- UX Diagram

Event ID	Source	Trigger	Response	Major Outputs	External Destinations
A2	User	View member Attendance history	Member attendance history viewed	Member attendance history	User
A3	Home Church Leader	Record home church attendance	Home church attendance recorded	New home church attendance information	Database

VIEW MEMBER ATTENDANCE HISTORY

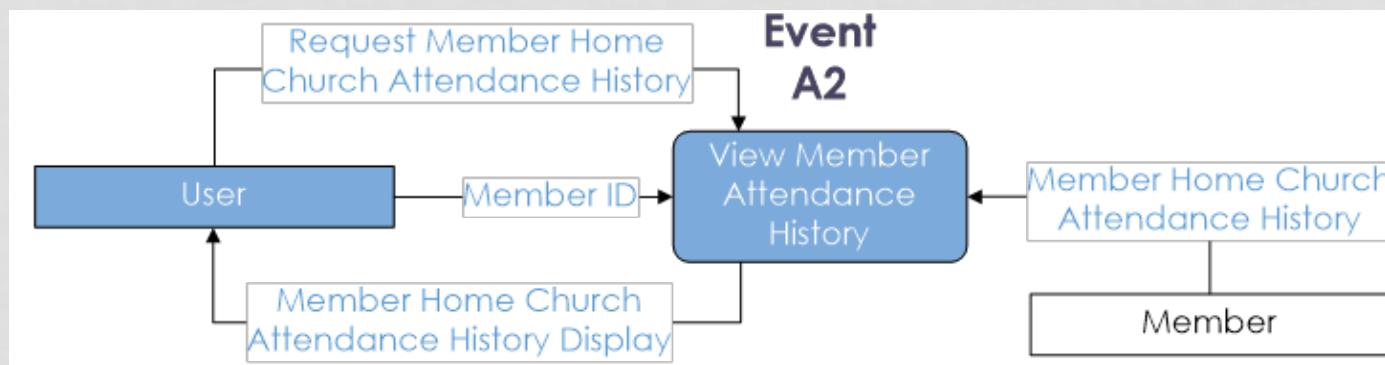
Event ID	Source	Trigger	Response	Major Outputs	External Destinations
A2	User	View member Attendance history	Member attendance history viewed	Member attendance history	User

ID	A2			
Name	Viewing attendance history of member			
Primary Actor	User			
Description	The home church leader of an administrator views the attendance of a home church member			
	Actor Action		System Response	
Typical Event Flow	1. User navigates to member attendance history page		2. System displays attendance history of member	
	Business Focus		System Focus	
Before Event	Trigger	View member attendance history	Preconditions	User logged in to system Home church has recorded attendance at least once
After Event	Conclusion	Member attendance history viewed	Postconditions	None

VIEW MEMBER ATTENDANCE HISTORY

Member Home Church Attendance History

= Member ID {First Name, Last Name, Church ID {Date, Attended}}



#Get MemberID

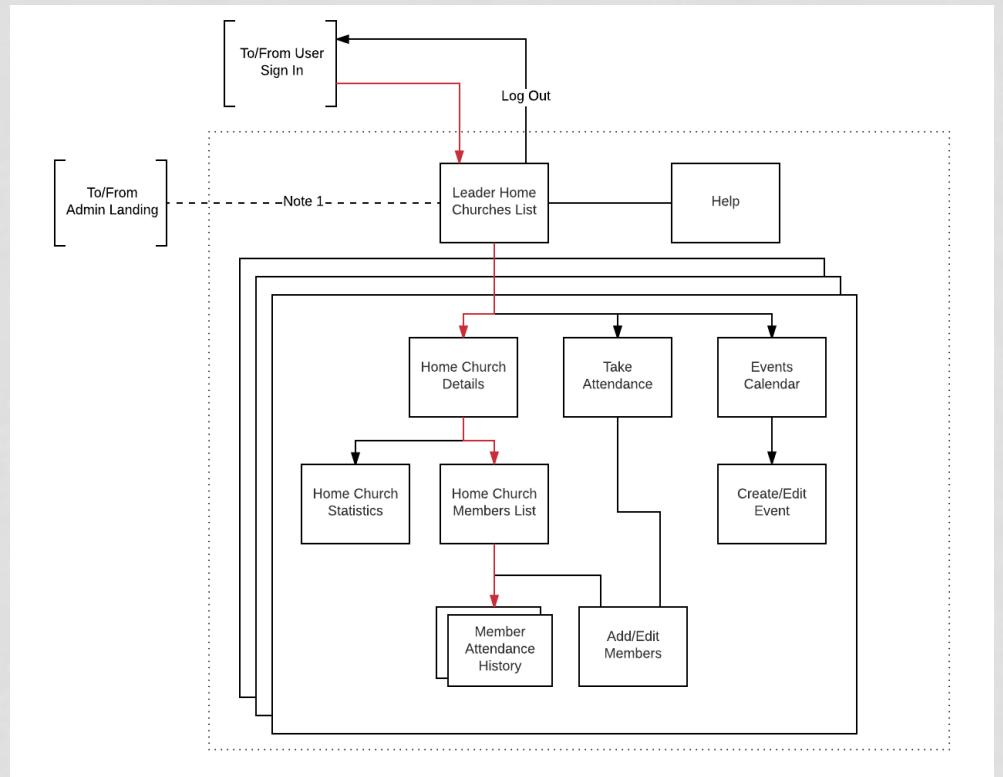
 Get MemberID from User

#Display Member Home Church Attendance History

 Using MemberID, Get corresponding Member Home Church Attendance History from Member
 Display Member Home Church Attendance History

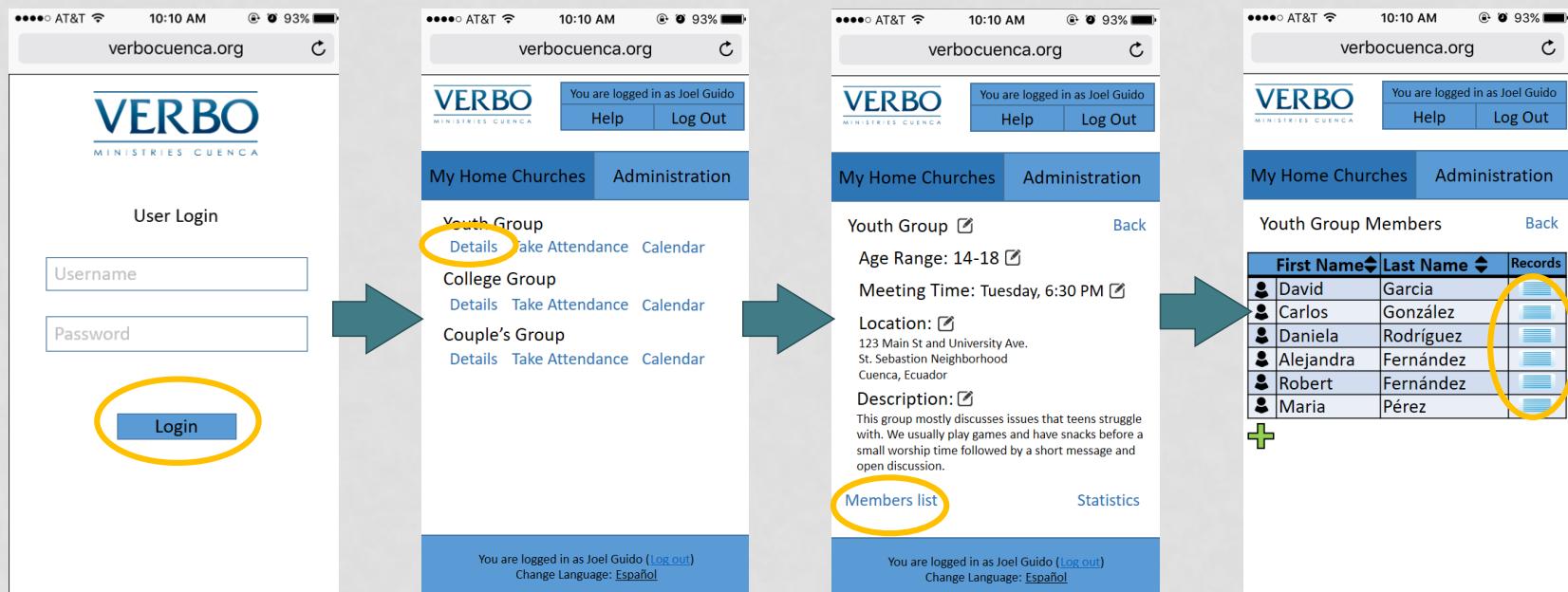
VIEW MEMBER ATTENDANCE HISTORY

UX Diagrams



VIEW MEMBER ATTENDANCE HISTORY

Wireframes



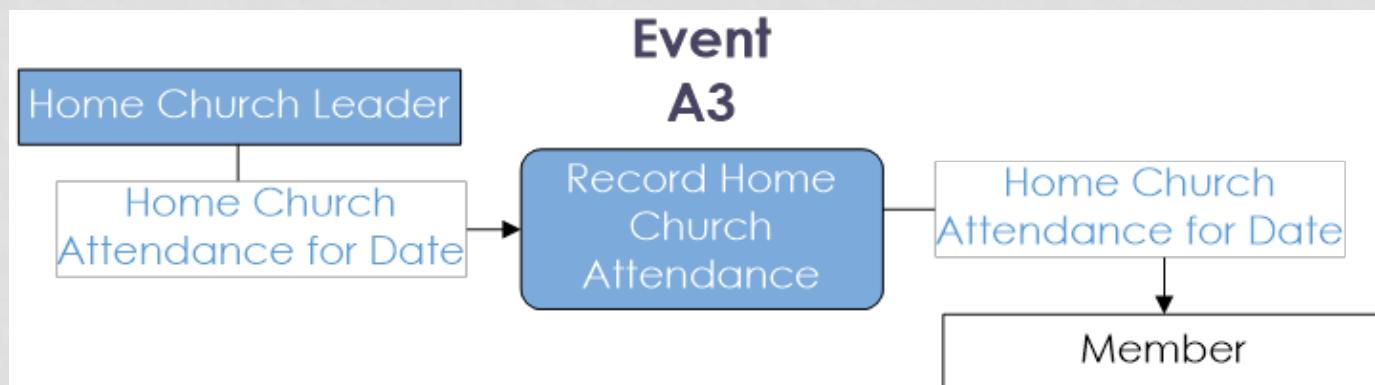
RECORD HOME CHURCH ATTENDANCE

Event ID	Source	Trigger	Response	Major Outputs	External Destinations
A3	Home Church Leader	Record home church attendance	Home church attendance recorded	New home church attendance information	Database

ID	A3				
Name	Taking attendance				
Primary Actor	Home church Leader				
Description	Home church leader marks whether or not home church member attends home church on a particular day. System updates attendance statistics accordingly.				
	Actor Action		System Response		
Typical Event Flow	1. Home church leader navigates to home church attendance page		2. System displays list of home church members		
	Business Focus		System Focus		
Before Event	Trigger	Home church leader	Preconditions	Home church leader logged in to system	
After Event	Conclusion	Home church attendance recorded	Postconditions	Database updated to reflect modified home church statistic	

RECORD HOME CHURCH ATTENDANCE

Home Church Attendance for Date = Church ID (Date = "X") {Date ("X") {Member ID, Attended}}



#Get new Home Church Attendance for Date

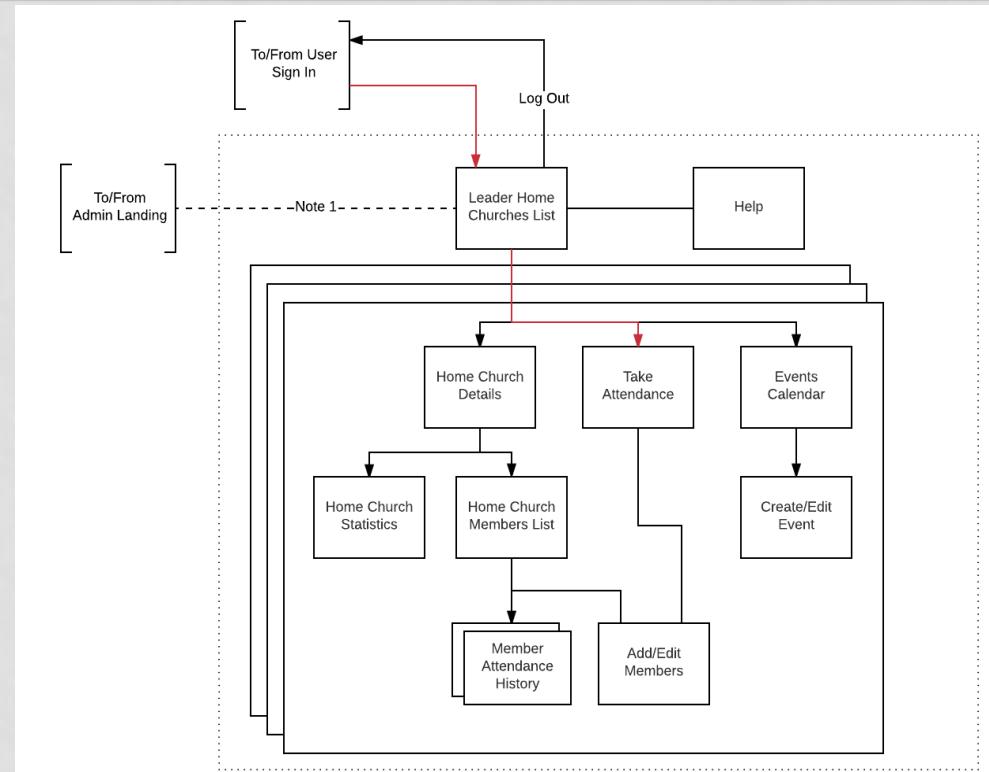
 Get new Home Church Attendance for Date from Home Church Leader

#Create new Home Church Attendance for Date

 Using Church ID and Member ID, Store new Home Church Attendance for Date in Member

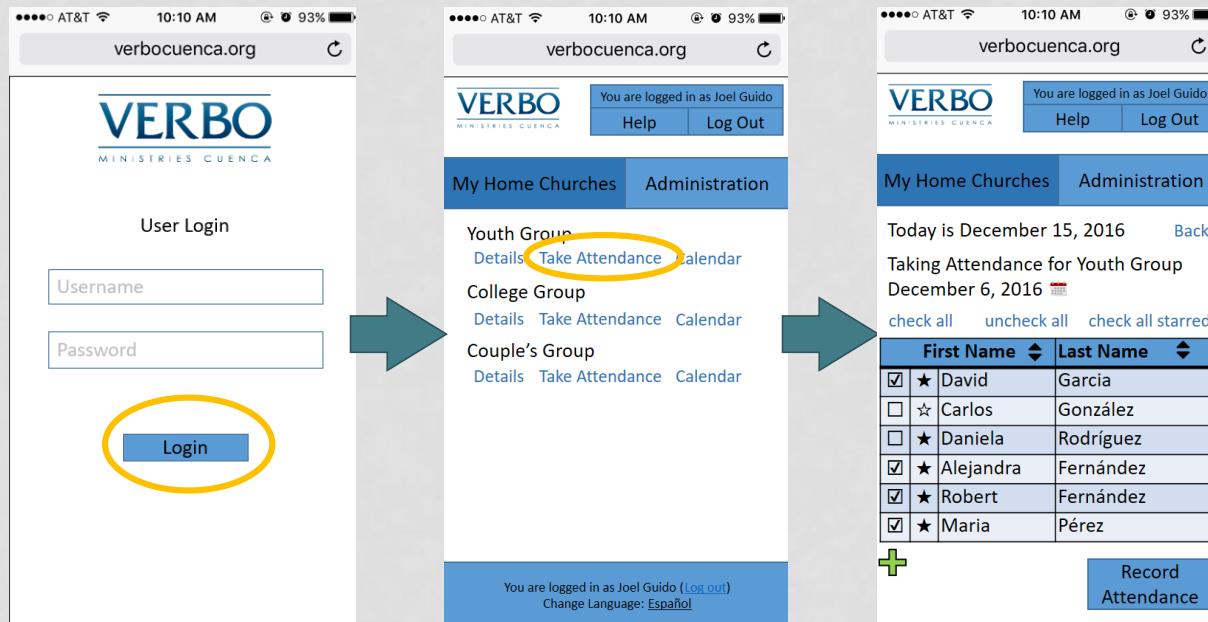
RECORD HOME CHURCH ATTENDANCE

UX Diagram



RECORD HOME CHURCH ATTENDANCE

Wireframes



QUESTIONS?

SYSTEM REQUIREMENTS SPEC.: AGENDA

System Requirements Specification

- User Roles
- Entity Relationship Diagram
- Attendance-Tracking Feature
- **Home Church Map Feature**
- Non-Functional Requirements
- Collaborating Systems & Other Software
- Schedule

HOME CHURCH MAP FEATURE

JOYCE YU

SYSTEM REQUIREMENTS SPECIFICATION

HOME CHURCH MAP FEATURE

- View the home church map
 - View home church details based from home church map
- System Response Table
 - Use Case
 - Data Description
 - Data Flow Diagram
 - Process Specification
 - UX Diagram
 - Wireframe

Event ID	Source	Trigger	Response	Major Outputs	External Destinations
C1	Visitor	View home church map	Home church map viewed	Home church map	Visitor
C2	Visitor	View home church details	Home church details viewed	Home church details	Visitor

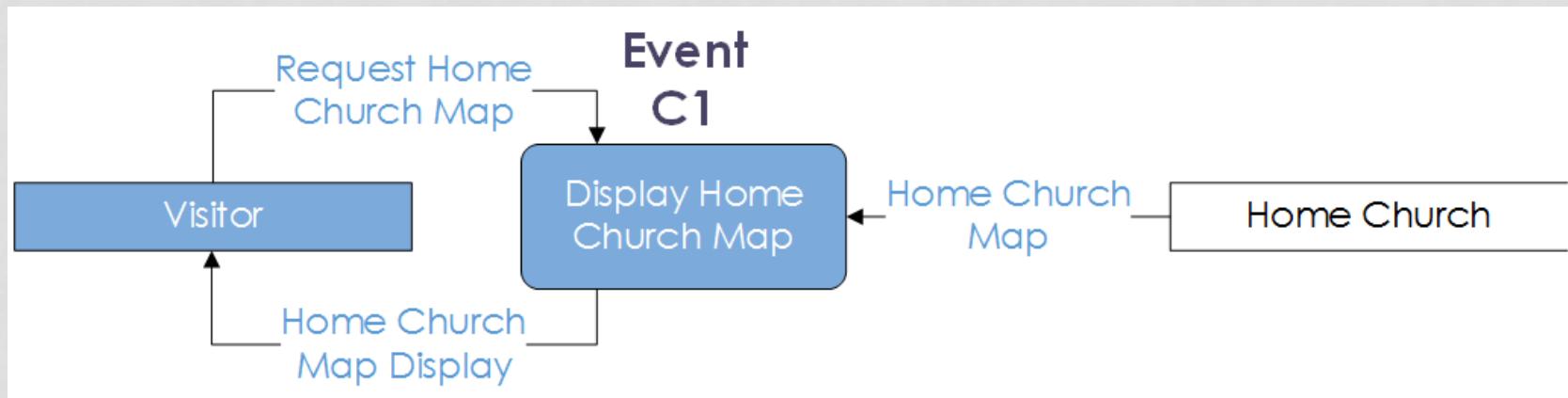
VIEW HOME CHURCH MAP

Event ID	Source	Trigger	Response	Major Outputs	External Destinations
C1	Visitor	View home church map	Home church map viewed	Home church map	Visitor

ID	C1			
Name	Viewing home church map			
Primary Actor	Visitor			
Description	A visitor views the map of home churches.			
	Actor Action		System Response	
Typical Event Flow	1. Visitor navigates to home church map page		2. System displays home church map	
	Business Focus		System Focus	
Before Event	Trigger	View home church map	Preconditions	None
After Event	Conclusion	Home church map viewed	Postconditions	None

VIEW HOME CHURCH MAP

Home Church Map = Church ID (Inactive Since = null) {Name, Location ID {House Number, Street, Cross Street, Neighbourhood, City}}



#Display Home Church Map

Get Home Church Map from Home Church

Using Home Church Map, Display Home Church Map

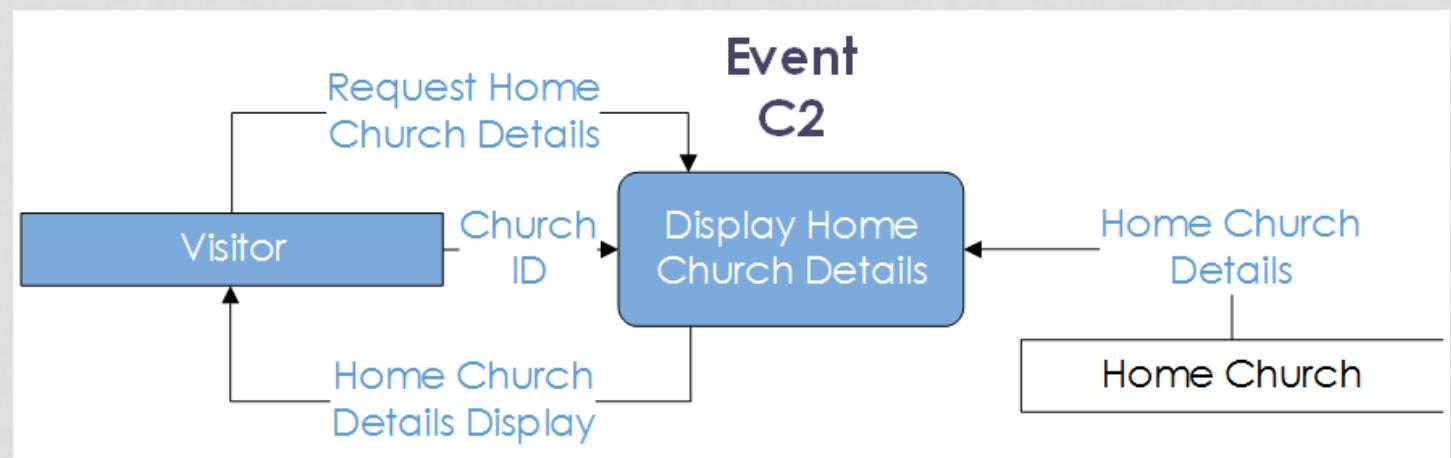
VIEW HOME CHURCH DETAILS

Event ID	Source	Trigger	Response	Major Outputs	External Destinations
C2	Visitor	View home church details	Home church details viewed	Home church details	Visitor

ID	C2			
Name	Looking up home church information			
Primary Actor	Visitor			
Description	A visitor views the details about a home church of interest			
	Actor Action		System Response	
Typical Event Flow	1. Visitor navigates to home church map page			
	2. Visitor clicks on home church of interest		2. System displays home church details	
	Business Focus		System Focus	
Before Event	Trigger	View home church details	Preconditions	Home church previously added to system
After Event	Conclusion	Home church details viewed	Postconditions	None

VIEW HOME CHURCH DETAILS

Home Church Details = Church ID {Name, Location ID {House Number, Street, Cross Street, Neighbourhood, City}, Meeting Time, Category, Inactive Since, Member ID (Church Role Name = "Home Church Leader" and Church ID = "X") {First Name, Last Name, Email, Phone, WhatsApp Username}}



#Get Church ID

Get Church ID from Visitor

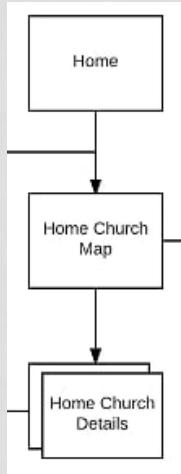
#Display Home Church Details

Using Church ID, Get corresponding Home Church Details from Home Church

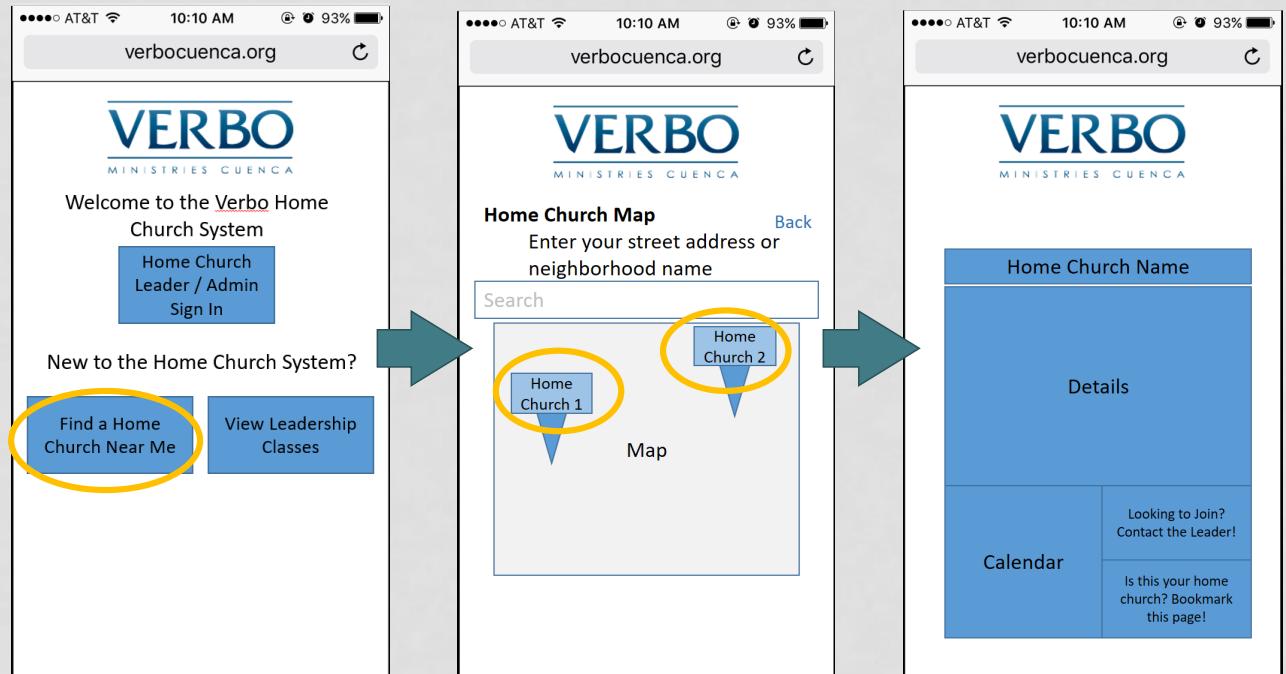
Display Home Church Details

VIEW HOME CHURCH DETAILS

UX Diagram



Wireframes



QUESTIONS?

SYSTEM REQUIREMENTS SPEC.: AGENDA

System Requirements Specification

- User Roles
- Entity Relationship Diagram
- Attendance-Tracking Feature
- Home Church Map Feature
- **Non-Functional Requirements**
- Collaborating Systems
- Schedule

NON-FUNCTIONAL USER REQUIREMENTS

- Usability
 - User-friendly for non tech-savvy users
- Accessibility
 - Culturally accessible: displaying Spanish language, cross-street addresses, dates are in DD/MM/YYYY
 - Accessible on mobile devices
 - Accommodates visually impaired
- Availability
 - Available 24/7 with minimal downtime for maintenance and upgrades
- Documentation and Training
 - Customer will be provided with user and training manuals

NON-FUNCTIONAL SYSTEM REQUIREMENTS

- Performance
 - Interactive, timely, and responsive system
 - Accommodates 1,000 simultaneous requests
- Capacity
 - Can handle 500 users and 200 home churches
- Security
 - Restrictions per user role to protect privacy and confidentiality
- Longevity
 - Able to run in current state for at least 10 years
 - Continuous backups insure that data is preserved when the system goes out of service

QUESTIONS?

SYSTEM REQUIREMENTS SPEC.: AGENDA

System Requirements Specification

- User Roles
- Entity Relationship Diagram
- Attendance-Tracking Feature
- Home Church Map Feature
- Non-Functional Requirements
- **Collaborating Systems & Other Software**
- Schedule

COLLABORATING SYSTEMS & OTHER SOFTWARE

CASSIE LONG
SYSTEM REQUIREMENTS SPECIFICATION

COLLABORATING SYSTEMS & OTHER SOFTWARE

- Heroku
 - Platform as a service provider
- Google Maps and Calendar APIs
 - Assists with home church map and calendar functionality

QUESTIONS?

SYSTEM REQUIREMENTS SPEC.: AGENDA

System Requirements Specification

- User Roles
- Entity Relationship Diagram
- Attendance-Tracking Feature
- Home Church Map Feature
- Non-Functional Requirements
- Collaborating Systems & Other Software
- **Schedule**

SCHEDULE

EVAN MIYAKAWA

SYSTEM REQUIREMENTS SPECIFICATION

SCHEDULE



QUESTIONS?

AGENDA

Business Proposal

- The Customer
- Other Stakeholders
- Motivation
- Buy Alternatives
- Build Alternative
- Recommendation

System Requirements Specification

- User Roles
- Entity Relationship Diagram
- Attendance-Tracking Feature
- Home Church Map Feature
- Non-Functional Requirements
- Collaborating Systems & Other Software
- Schedule

PROJECT CONCLUSION

EVAN MIYAKAWA

ISA V: VERBO CHURCH CUENCA ATTENDANCE TAKER

PROJECT CONCLUSION

miVerbo is the best solution to meet the customer's requirements

- Cost efficient, and will have all the needed features
- Clearly drawn-out System Requirements Specification

QUESTIONS?