



ONLINE GIFT REGISTRY

Team TEENG

Tai Butler, Edward Martinez, Eduardo Davila, Nupoor Basmatkar, Graham O'Hea

Project Vision

- A lifetime of gifting made easy
- Users will be able to create wish lists
- Gift givers will be able to give the perfect gift

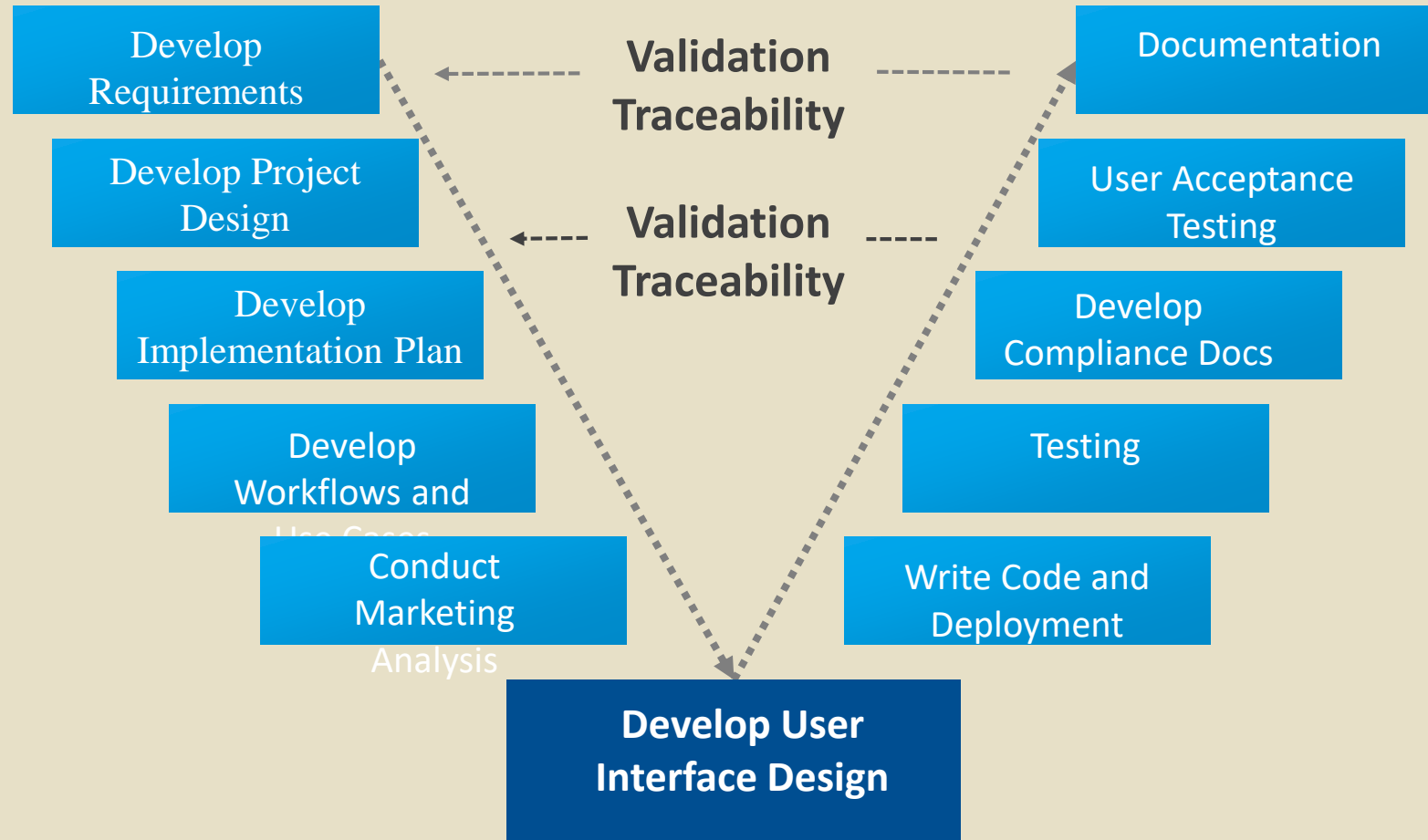


(Culang & Castro, 2008)

Project Scope

- Web app and database
- Online hosting
- Users can create accounts and wish lists
- Users will be able to make connections with each other
- Gift givers can collaborate on gifts to give
- The recipient will not be able to see gifts that have been selected

V-Model



Workplan Estimates - Design

- Requirements – 16 work hours
- Database design – 16 work hours
- Workflow mapping – 12 work hours
- Interface design – 20 work hours
- Marketing research – 40 work hours
- Cost analysis – 4 work hours

Workplan Estimates – Implementation

- Database construction – 4 work hours
- Web development – 250 work hours
- Deployment – 8 work hours
- Testing – 150 work hours
- Compliance – 12 work hours

Workplan Estimates - Overhead

- Familiarization with development methodologies – 8 hours
- Learning programming skills – 60 hours

Team TEENG

- Tai Butler – visual design, graphics, and marketing research and analysis
- Edward Martinez – project management and infrastructure
- Eduardo Davila – associate software development
- Nupoor Basmatkar – risk analysis and management, compliance, and quality assurance
- Graham O’Hea – team lead, project design, and principle software development

High-Level Project Timeline

[illegible]

Specific Tasks

- Documentation of the business case for this project
- Development of the use cases for this platform
- Development of user workflows
- Conducting functional requirements analysis
- Conducting technical requirements analysis
- Selection of database, web server, and development framework
- Selection of the hosting environment
- Development of the project plan
- Conducting general market analysis
- Conducting social media analysis
- Development of the user interface wireframes
- Development of custom graphics as needed
- Creating the overall website structure
- Writing the actual code
- Deployment to the hosting environment
- Development of testing framework
- Testing deployed web app
- Research regulatory requirements and develop compliance needed for it

Costs – Estimates and Actuals

Expense	Estimate	Actual	Difference
Salaries per team member (pro-rated to 3 months)	\$100,000 (simulated)	\$100,000 (simulated)	\$0
Hosting costs	\$100.00	Domain name: \$14.99 x 2 DNS costs: \$2.00 Tech Support: \$38.42 Total: \$70.40	\$29.60 (under budget)
Graphic design	\$200.00	\$65.00	\$135.00 (under budget)

Marketing Strategy

- Marketing vision
- Market analysis
- Marketing initiatives
 - Email campaign
 - Social media
- Target markets
 - Online gift registries
 - Event planning
- Buyer personas
- Product, place, promotion, and price
- Marketing channels

Branding

- Hired graphic designer
 - They helped us to develop our brand personality
 - Collaborated with them to create logo



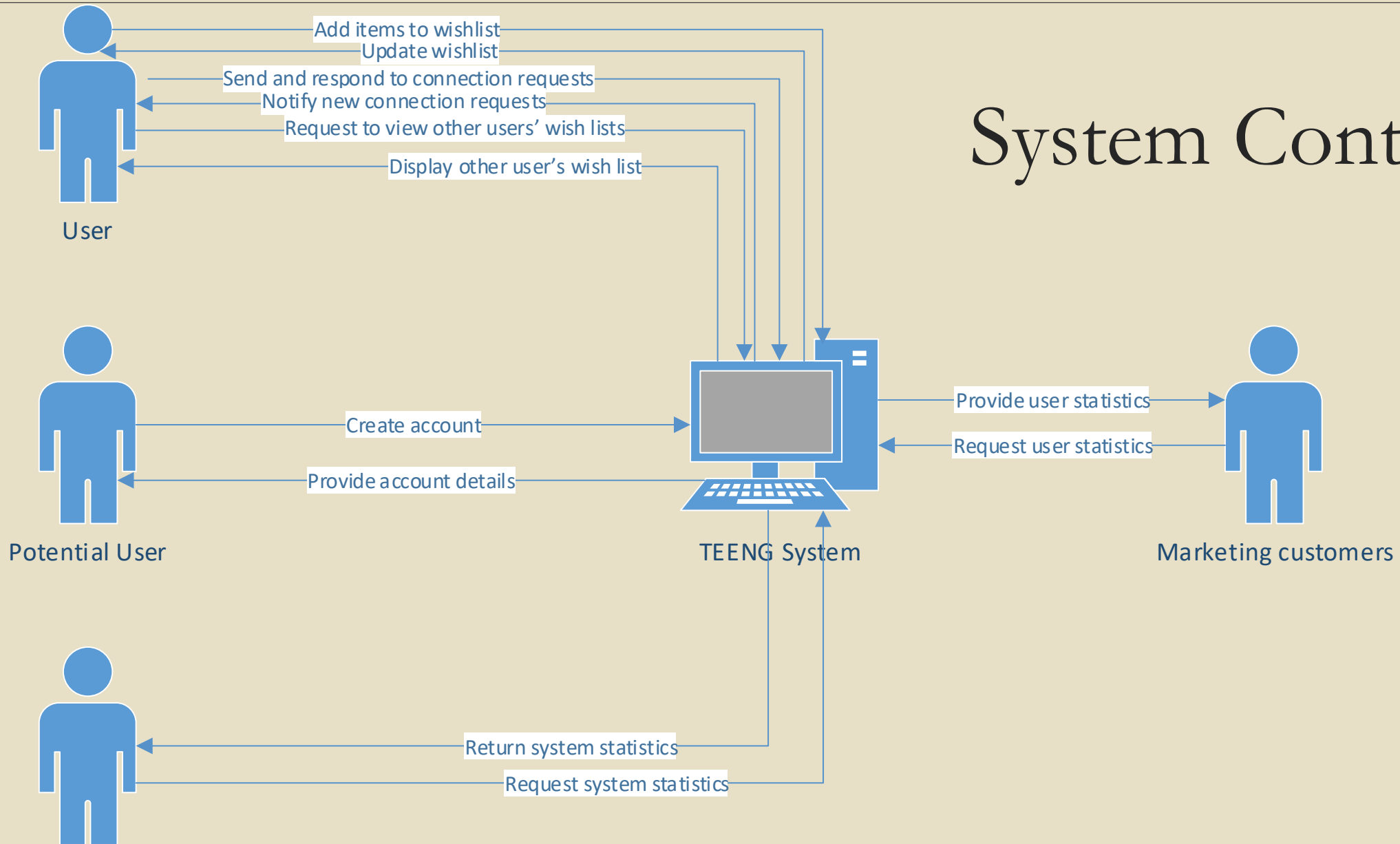
Risk Analysis

Description	Likelihood	Potential loss	Early Warning	Abatement
Scope creep – the features of the project extend beyond requirements	Medium	High	Missing milestones	Sticking to establish design plans and culling any features beyond the minimum viable product
Scheduling issues	Low	High	Unable to keep project plan	Redefine the tasks in the project along the critical path
Cost overruns	Medium	High	Costs are higher than expected	Reduce or eliminate non-necessary expenditures
Loss of stakeholder satisfaction	Low	High	Expression of dissatisfaction	Keeping stakeholders informed and addressing concerns immediately
Change in the market	Medium	High	Watching trends	Adjusting marketing strategy based on trends

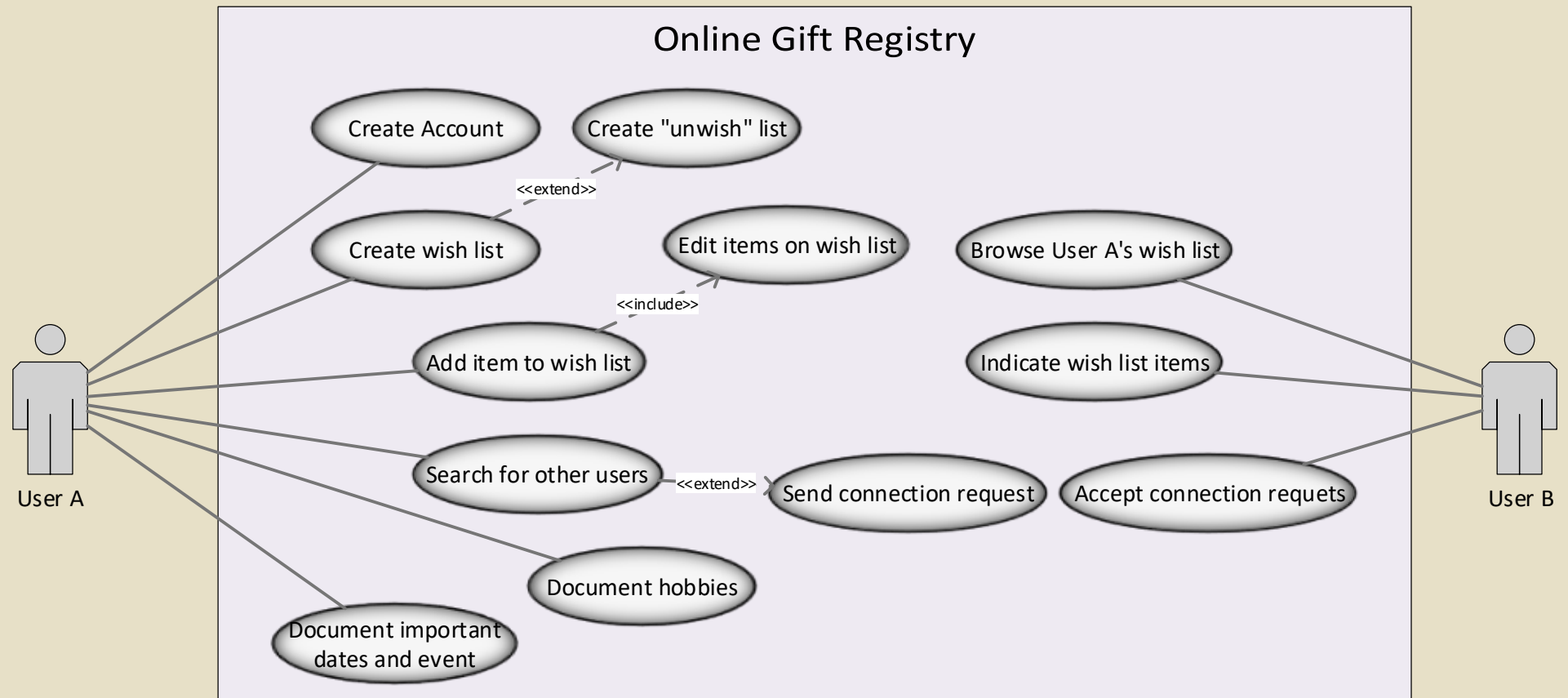
Problem Analysis

- Scheduling conflicts among team members
- Coordination of multiple tasks over the course of the schedule

System Context



Product Use Cases



Functional Specifications

- User functions
- Events
- Wish lists / registries
- Interests
- Connections
- Connection requests
- Items
- Item Indications

Functional Specifications Excerpts

- “The user should be able to indicate dates and holidays that are important to them. These dates can be a one-time event, such as a graduation or wedding, or they can be recurring events, such as birthdays, anniversaries, and holidays. For phase 1, recurring events only have to happen once a year.”
- “Users should be able to browse through the platform to find other users of the service that they might know. If they do find someone that they know, they should be able to send a request to that person. The second person should be able to approve the request and indicate the relationship that they have with the requesting person. This is known as a Connection.”
- “When a user adds a new item to their wish list, they will be required to assign that item one or more connection levels to indicate the comfort that they have with connections in that particular level seeing the item that they have added.”

Requirements Traceability Matrix Excerpt

1. Page Structure (Header/Footer)

- 1.1. Every header will display the company logo that redirects to the site homepage.
- 1.2. Every footer will display links to the company's social media sites.
- 1.3. Every footer will display the "Terms and Conditions".
- 1.4. Every footer will display the "Privacy Policy".
- 1.5. Every footer will display a "Contact us" link that will include an email address for users to use when reaching back to the company.

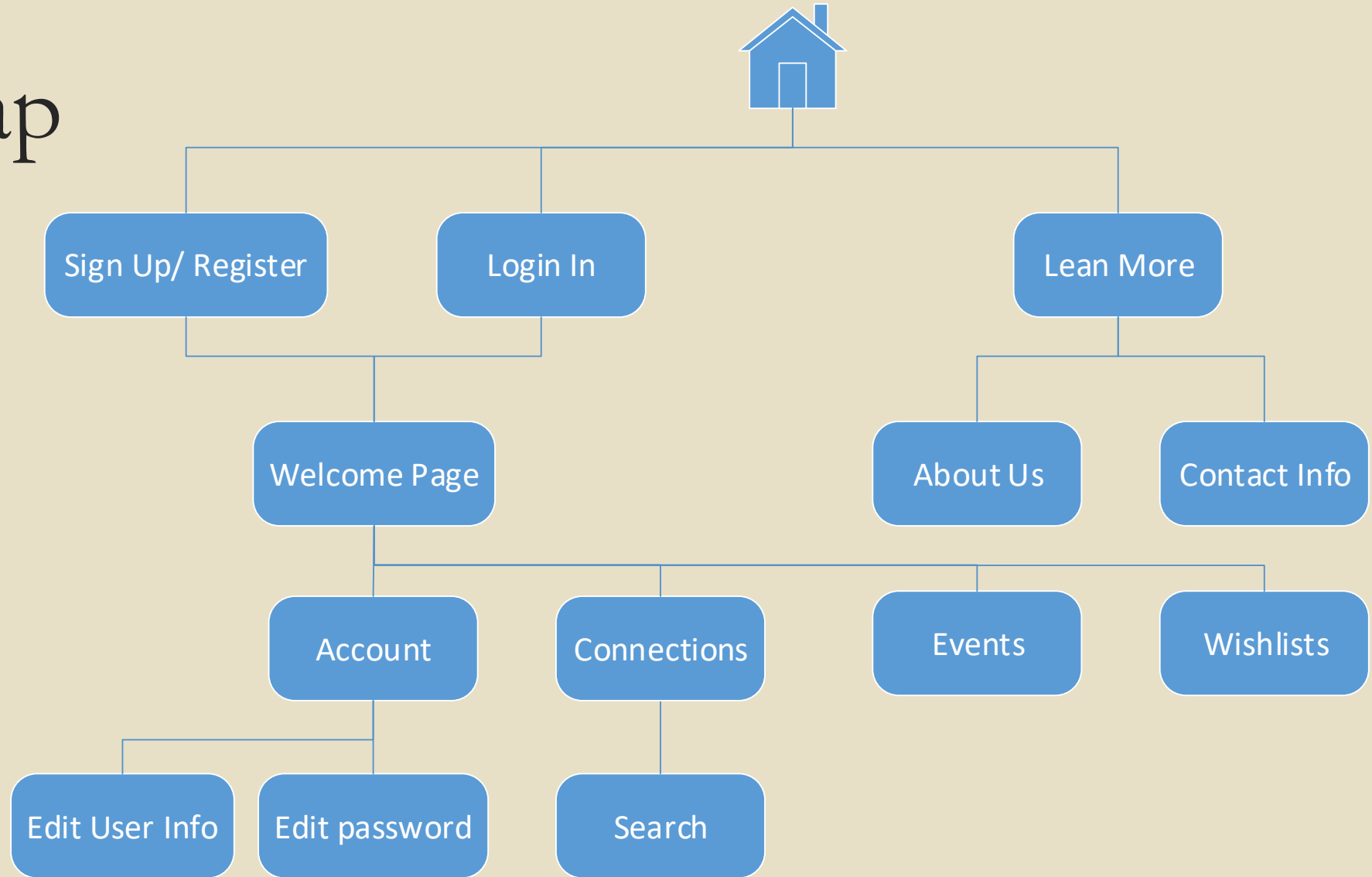
Test Case Examples

Test Case #	Action	Expected result	Test Result
1	Click on the logo in the header.	The user is redirected to the homepage.	
2	Click on the social media site links.	The user is redirected to the company's social media account pages.	
3	Click on the "Terms and Conditions" link.	The "Terms and Conditions" are displayed.	
4	Click on the "Privacy Policy"	The "Privacy Policy" is displayed.	
5	Click on the "Contact Us" link	The company's email will display for the user.	

Non-Function Specifications Excerpts

- Security
 - Audit
 - Performance
 - Availability
 - Recovery
 - Compatibility
 - Maintainability
 - Usability
 - Localization
- “The system will be primarily written in PHP using commonly available development tools and frameworks. Where possible, the system should be designed that expects future changes to the underlying system and can accommodate new changes as they become known in as clean of a manner as possible.”

Sitemap



System Interface – Home Page



CREATE



CONNECT

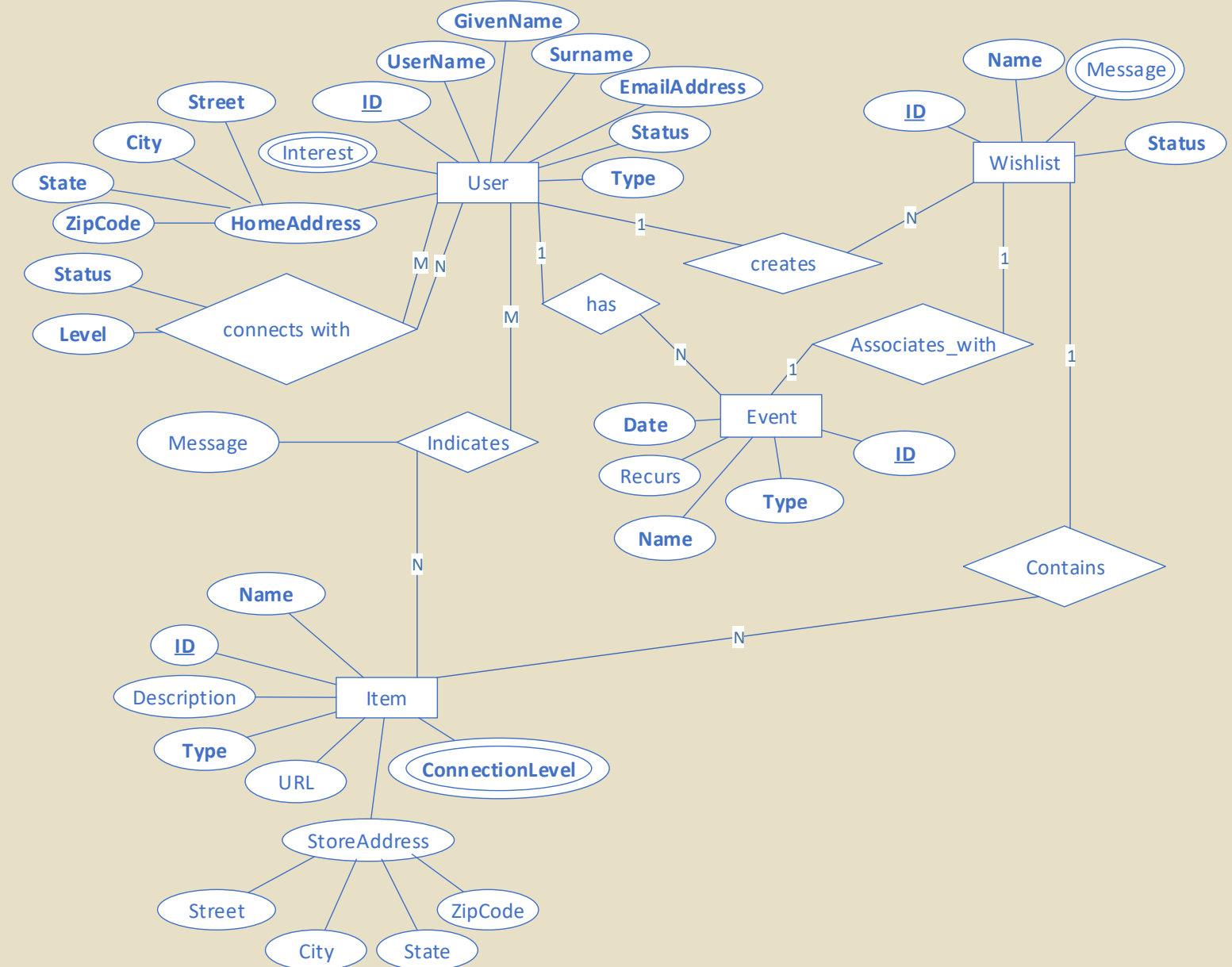


GIFT

- control who is in your

- check lists and gift

Entity Relationship Diagram



Database Tables

UserItemIndications	
<div><div>FK</div></div>	UserId
<div><div>FK</div></div>	ItemId
	Message

Interests	
<div><div>FK</div></div>	UserId
	Description

UserConnections	
<div><div>FK</div></div>	UserId
<div><div>FK</div></div>	ConnectedWithUserId
	Status
	Level

Events	
<div><div>PK</div></div>	Id
<div><div>FK</div></div>	UserId
<div><div>FK</div></div>	WishListId
	Date
	Name
	Type
	Recurs

WishLists	
<div><div>PK</div></div>	Id
<div><div>FK</div></div>	UserId
	Name
	Status

Users	
<div><div>PK</div></div>	Id
	UserName
	GivenName
	Surname
	EmailAddress
	Status
	Type
	HomeAddressStreet
	HomeAddressCity
	HomeAddressState
	HomeAddressZip

RegistryMessages	
<div><div>FK</div></div>	WishListId
	Message

Items	
<div><div>PK</div></div>	Id
<div><div>FK</div></div>	WishListId
	Name
	Description
	Type
	URL
	StoreAddressStreet
	StoreAddressCity
	StoreAddressState
	StoreAddressZip

ItemConnectionLevels	
<div><div>FK</div></div>	ItemId
	ConnectionLevel

Risk Management Process

- Identifying risks
- Analyzing risks
- Prioritizing risk
- Assigning risk ownership
- Responding to risks
- Monitoring risks

Risk Register

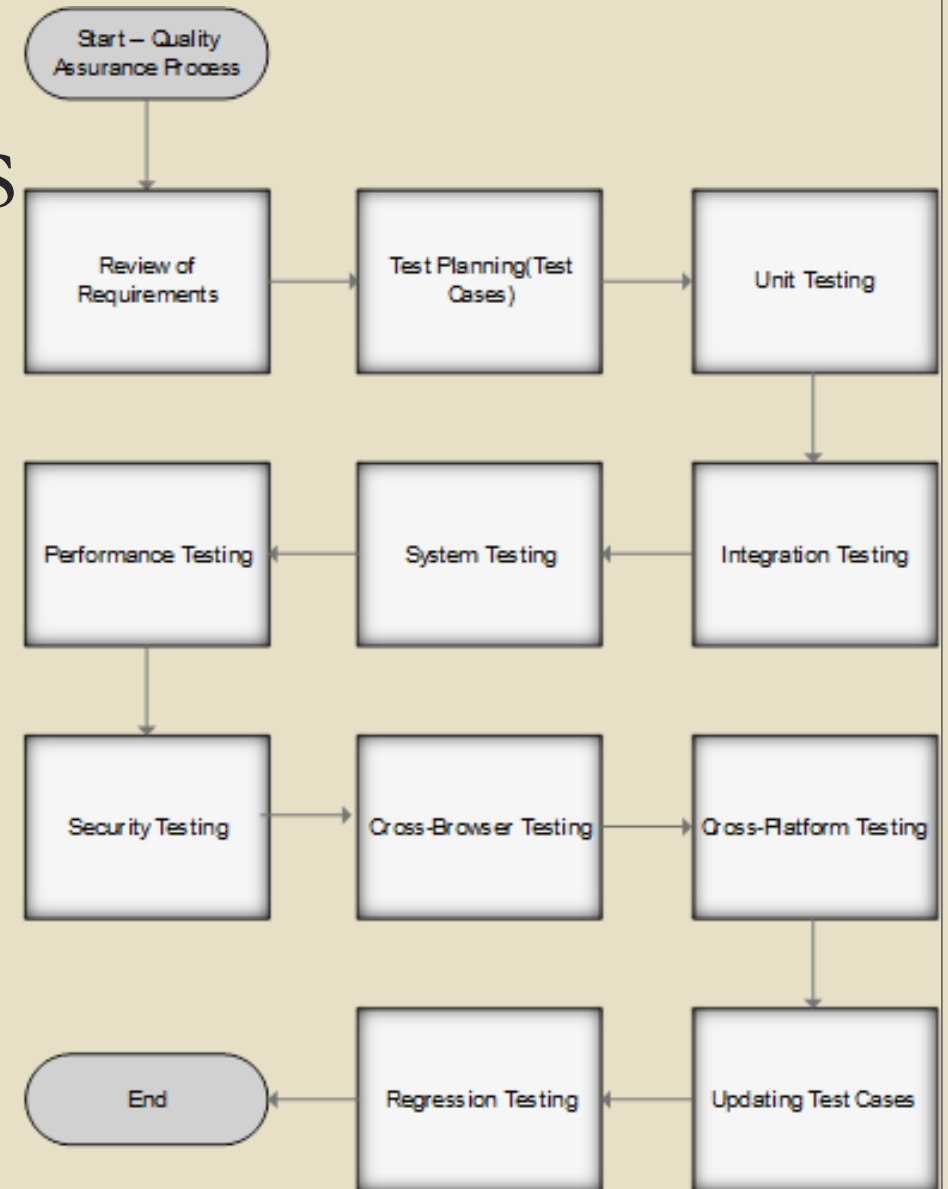
ID	RISK	Identified By	Mitigation Strategy	Likelihood	Impact	Detection Difficulty
1	Scope creep	Team	Sticking to establish design plans and culling any features beyond the minimum viable product	Medium – 3	High – 5	Low - 1
2	Scheduling issues	Team	Redefine the tasks in the project along the critical path	Low – 1	High – 4	Low - 1
3	Cost Overruns	Team	Reduce or eliminate non-necessary expenditures	Medium – 2	High – 5	Low - 1
4	Loss of stakeholder satisfaction	Team	Keeping stakeholders informed and addressing concerns immediately	Low – 1	High - 5	Low - 2
5	Change in the market	Team	Adjusting marketing strategies based on current trends	Medium – 3	High – 4	Medium - 3
6	Breaches in security	Nupoor	State of the art security along with trustworthy backups	High – 4	High – 5	Medium - 3
7	Catastrophic loss	Graham	Having good backup and clean-up strategy	Low - 1	High - 4	Low - 2

Risk Contingency Plan

Risk Event	Response	Contingency Plan	Trigger	Responsible Party
Not sticking to establish design plans and culling any features beyond the minimum viable product	Immediate refocus	Circle back to initial Project Scope and recognize what needs to be done and what is becoming a scope creep factor and needs to be stopped.	Unmapped/unscheduled additions to project implementation	Team
Accumulating non-necessary expenditures	Reduce	Cross-check financials and ensure any unnecessary expenses are immediately curtailed.	Over-spending	Team
Not keeping stakeholders informed and addressing concerns immediately	Immediate refocus	Call a meeting with stakeholders and entire team to work on any concerns	Any concerns voiced by Stakeholders	Team
Not Adjusting marketing strategies based on current trends	Reduce	Marketing team must make sure we are up to date in terms of our consumers' needs and the current market	Competitors doing better than us in terms of customer base and revenue	Tai
Not having state of the art security along with trustworthy backups	Reduce	Security team should update all security requirements in order to ensure all data is safe and backed up	Any data leaks or cybercrime activity	Nupoor
Not having good backup and clean-up strategy	Immediate refocus	Backup strategy must be revamped and all clean-up strategies should be revisited to ensure best customer satisfaction	Unhappy customers	Nupoor

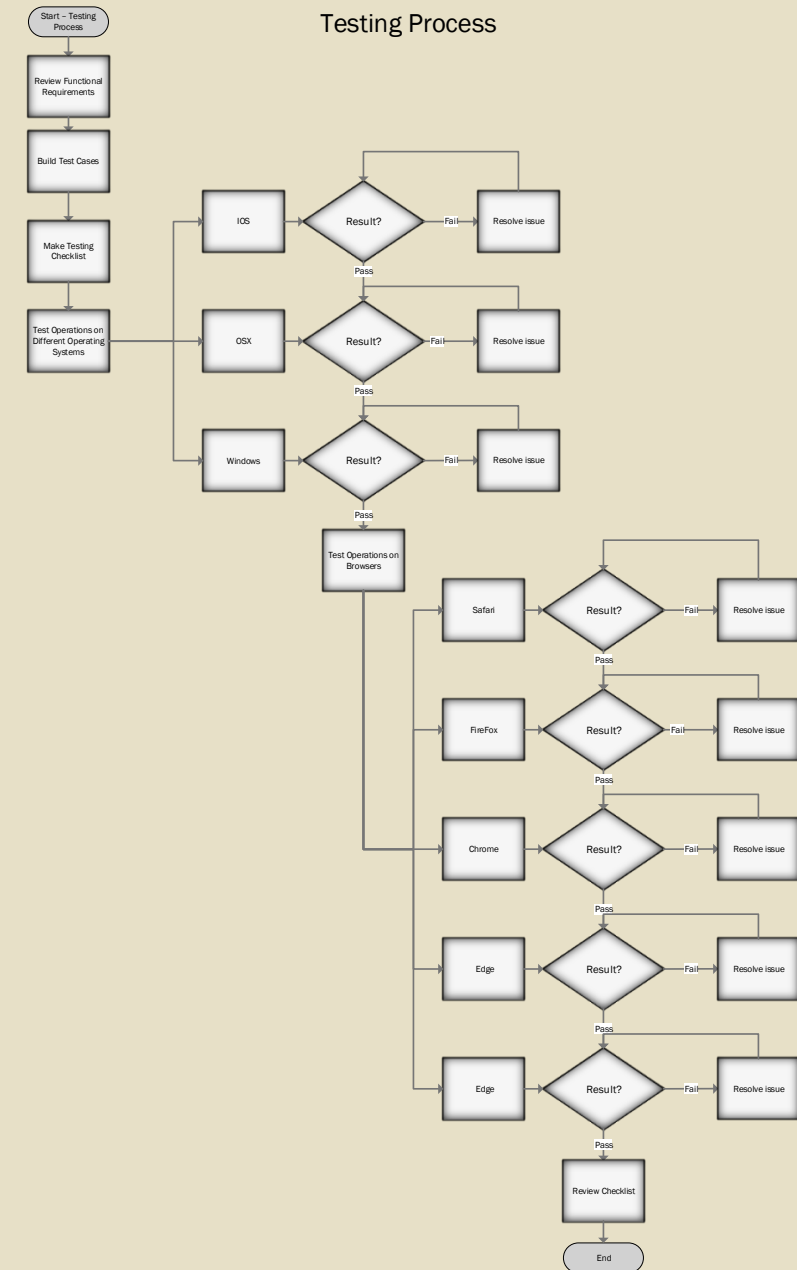
Quality Assurance Process

- Analysis of requirements
- Design
- Implementation
- Verification or testing
- Maintenance



System Testing

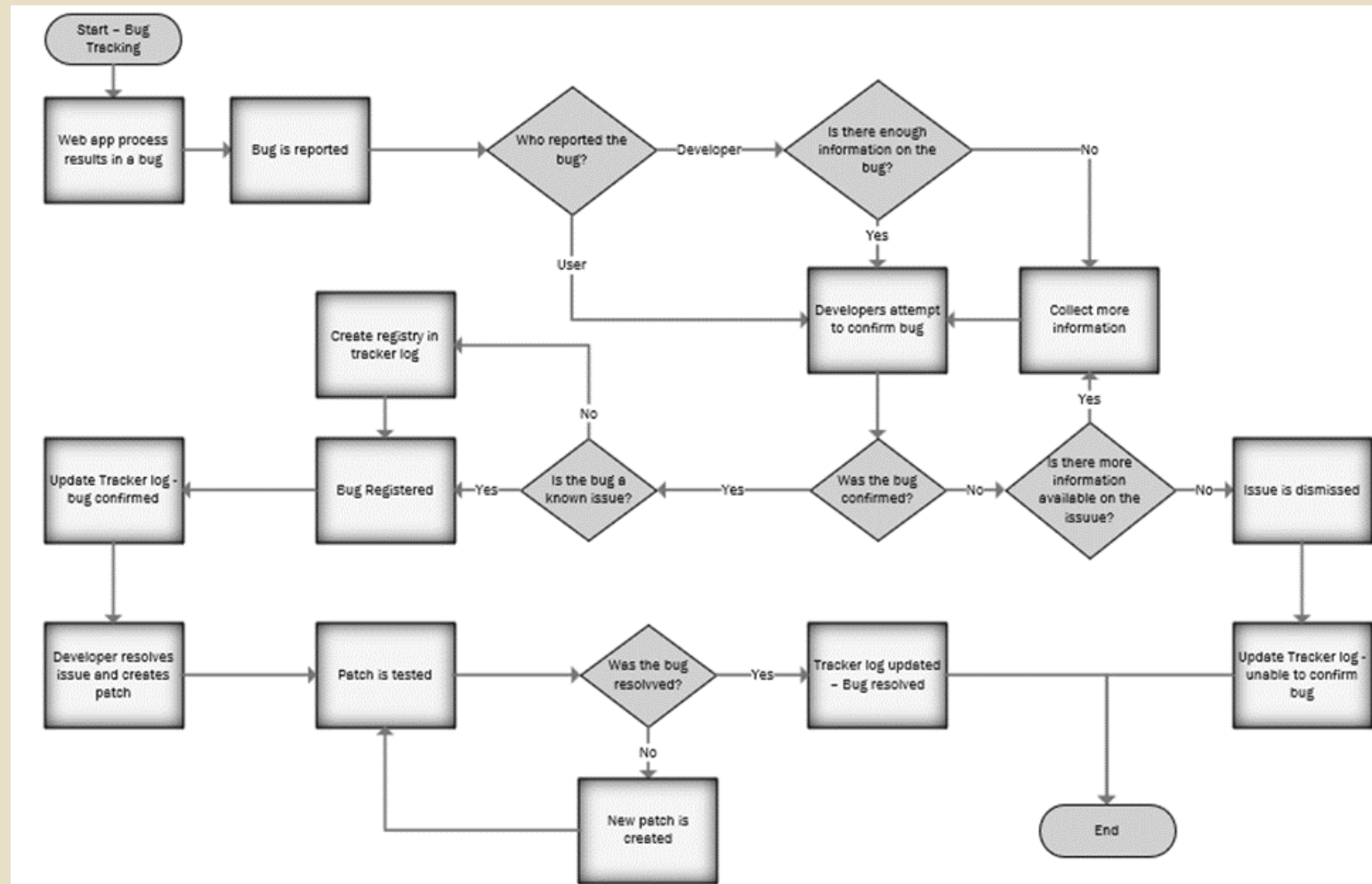
- Function testing
- Links testing
- Forms testing
- Cookies testing
- HTML/CSS validation
- Usability testing
- Content testing
- Interface testing



Change Management Process

1. Identify the need for a change (Any Stakeholder)
2. Log change in the change request register (Project Manager)
3. Conduct an evaluation of the change (Project Manager, Project Team, Requestor)
4. Submit change request to Stakeholders (Project Manager)
5. The Stakeholders Decision
6. Implement Change (Project Manager)

Defect Reporting Process



Issue Priorities

1. Critical: The trunk does not work. Significant parts of the source are broken preventing key operations.
2. Urgent: Portions of the source are hindering advertised functions in a major way.
3. Medium: Issues are hindering proper function but applications are still working. There are workarounds for the issues.
4. Low: There is a minor loss of advertised function. Typically, this is just a nuisance but does not significantly affect proper function of the site. This may be a result of the site being accessed from an uncommon platform.
5. Very low: These issues are related to cosmetics, misspellings, misaligned graphics, etc.

Defect Tracking Log

DEFECT TRACKING LOG

Webpage name: TEENG Registry

Webpage URL: <https://teeng.net>

Purpose: To ensure that web site meets intended performance specifications. This spreadsheet will be used to track defects. The goal is to find the majority of the site's bugs before going live but there will always be things that are missed. This log will be used to document and test defects that must be corrected after project completion. This form will make it easier to monitor the progress of bug corrections. This form may be used by any member of the team.

[illegible]

Task Name	Duration	Start	Finish	Task Name	Duration	Start	Finish
Team TEENG Gift Registry	70 days	Mon 10/29/18	Sat 2/2/19	Selection of database, web server, and development framework	3 days	Mon 11/12/18	Wed 11/14/18
Develop Requirements	14 days	Mon 10/29/18	Thu 11/15/18	Selection of Hosting Environment	3 days	Thu 11/15/18	Sat 11/17/18
Documentation of Business Case	8 days	Thu 11/1/18	Sun 11/11/18	Development of user interface wireframes	8 days	Thu 11/15/18	Sat 11/24/18
Presentation	0 days	Tue 11/6/18	Tue 11/6/18	Write Code and Deployment	36 days	Mon 11/26/18	Sun 1/13/19
Milestone 1/ Documentation	0 days	Thu 11/8/18	Thu 11/8/18	Development of custom graphics	26 days	Mon 11/26/18	Mon 12/31/18
Develop Project Design	9 days	Mon 11/5/18	Thu 11/15/18	Create overall website structure			
Develop Implementation Plan	14 days	Mon 11/12/18	Thu 11/29/18	Deployment to the hosting environment			
Develop Risk Management Process	12 days	Tue 11/13/18	Wed 11/28/18	Testing	40 days	Mon 12/3/18	Fri 1/25/19
Develop Quality Assurance Processes	5 days	Tue 11/13/18	Mon 11/19/18	Test Deployment and Web App			
Develop a Defect Tracking Process	5 days	Wed 11/14/18	Tue 11/20/18	Update ERD	4 days	Thu 11/29/18	Tue 12/4/18
Develop a Change Management Process	5 days	Wed 11/14/18	Tue 11/20/18	Develop Site Map	4 days	Thu 11/29/18	Tue 12/4/18
Develop Workflows and Use Cases	6 days	Mon 11/5/18	Sun 11/11/18	Milestone 3 Documentation/ Presentation	0 days	Wed 12/5/18	Wed 12/5/18
Milestone 2/Documentation	0 days	Mon 11/19/18	Mon 11/19/18	Milestone 3 Revision	0 days	Mon 12/10/18	Mon 12/10/18
Presentation w/Demo	0 days	Tue 11/20/18	Tue 11/20/18	Milestone 4	0 days	Wed 12/19/18	Wed 12/19/18
Milestone 1&2 Revision and Documentation	0 days	Sat 11/24/18	Sat 11/24/18	Milestone 4 Revision	0 days	Sat 12/22/18	Sat 12/22/18
Presentation PPT	0 days	Sat 11/24/18	Sat 11/24/18	Develop Compliance Docs	22 days	Fri 12/14/18	Sat 1/12/19
Conduct Marketing Analysis	20 days	Mon 11/5/18	Fri 11/30/18	Research Regulatory Requirements and Develop Compliance			
Conduct Social Media Analysis				Milestone 5	0 days	Wed 1/16/19	Wed 1/16/19
Conduct Functional Requirements Analysis	8 days	Thu 11/1/18	Sun 11/11/18	Milestone 5 Revision	0 days	Mon 1/21/19	Mon 1/21/19
Conduct Technical Requirements Analysis				Final Presentation	0 days	Wed 1/30/19	Wed 1/30/19
				Final Version of Documentation and PPT	0 days	Sat 2/2/19	Sat 2/2/19

Communication Plan

Communication Type	Description	Frequency	Format	Participants/Distribution	Deliverable	Owner
Status Report	Project Status	Weekly	Email/Zoom	Project Team	Update Docs	Project Manager
Team Meeting	Collaboration Meetings	Weekly	Email/Zoom	Project Team	Update Team	Project Manager
Project Review	Present project status to Stakeholders	Weekly	Email/Zoom	Project Team	Project Team	Project Manager
Milestones	Maintain project scope to meet milestone dates	Weekly	Email/Zoom	Project Team	Phase completion and kickoff report	Project Manager
Design Review	Collaboration on Design/Analysis	Weekly	Email/Zoom	Project Team	Design Package	Project Manager

Policy Development

- Terms and Conditions
- Privacy Policy
- Cookie Policies

Meeting Minutes

Team TEENG

Gift Registry Project

Meeting Minutes

Date: November 29, 2018

Start Time: 6:30pm

Attendees: Tai Butler, Edward Martinez, Eduardo Davila, Nupoor Basmatkar, Graham O'Hea

AGENDA

I. Call to Order

II. Approval of Minutes

Team approved

I. Unfinished Business

Usability Testing

- Task 1 – Navigate to the website's Sign-up page and create an account.
- Task 2 – Navigate to the website's Homepage and login in.
- Task 3 – Navigate to your event's page and create an event.
- Task 4 – Navigate to your Wish List's page and create a wish list.
- Task 5 – Navigate to one of your wish lists and add an item.
- Task 6 – Navigate to your connections page and add one of the team members.
- Task 7 – Navigate to your wish list created and hide the item you added in task 5.

Technical Details

- Hosting through AWS
 - Elastic Beanstalk
 - RDS
 - Route 53
 - CodeCommit
 - VPC
- Development
 - Apache
 - MySQL
 - Eclipse PHP
 - Bootstrap
 - Written in PHP, SQL, HTML, JavaScript, CSS
 - 5,265 lines of code

Demo

<http://www.teeng.org/Home/>

Lessons Learned

- Success will only be possible if we work together as a team
- A project of this size has numerous interdependencies that all have to be accounted for
- Time management is of the utmost importance
- Just how much of the content that we have learned in other classes has come into play in the course of this project
- Chen's Notation ERD and table mapping

References

- Culang, A. & Castro, R. (2008, Dec 25). *Wish-list*. Retrieved from <http://buttersafe.com/2008/12/25/wish-list/>