

Sportz Magazine Statement of Work

Project Name: Sportz Magazine

Focus Area: Requirements gathering/identification, analysis, use cases, documentation
- general project management processes

Product/Process: Online subscription renewal application

Prepared By

Document Owner(s)	Project/Organization Role (Put actual roles here)
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Project Charter Version Control

Version	Date	Author	Change Description
1.0	10/03/13	David Hodge	Charter created.
1.1	10/16/13	David Hodge	<ul style="list-style-type: none">Edited charter to reflect hand-out terminology
1.2	10/21/13	Chelsea Grindstaff	<ul style="list-style-type: none">Added context diagram
1.3	10/22/13	Shaun Carter	<ul style="list-style-type: none">Added use case diagram
1.4	10/22/13	David Hodge	<ul style="list-style-type: none">Added detailed use cases.
1.5	11/22/13	David Hodge	<ul style="list-style-type: none">Added design details

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1 PROJECT CHARTER PURPOSE

The project charter defines the scope, objectives, and overall approach for the work to be completed. It is a critical element for initiating, planning, executing, controlling, and assessing the project. It should be the single point of reference on the project for project goals and objectives, scope, organization, and work plan. In addition, it serves as a contract between the Project Team members, stating what will be delivered by whom and during a specified timeframe. As they say, this is a living document so team members are encouraged to modify/add to the charter as circumstances dictate.

2 PROJECT EXECUTIVE SUMMARY

The project team has tasked itself with the mock-creation of an online subscription renewal platform for Sportz Magazine. Users of the application should be able to establish/renew subscriptions to the magazine. The application must meet but are is limited to the following requirements for contributors and first-time subscribers:

- Maintain the name, the address, and the contact detail for each contributor.
 - Maintain the details for each contribution, including the type of the contribution, the dates, the payments, and the complimentary subscription type.
 - Record which staff is working with which contributor.
 - Track the status of each contribution.
 - Account for corporate and individual subscriptions
 - Offer a money-back guarantee for first-time subscribers who want to cancel.
 - Provide a free six-month extension to anybody who pays for three full years.
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3 ENTERPRISE DESCRIPTION/PROPOSAL

Sportz Magazine is a quarterly-published magazine that provides a summary of the sports news for the preceding quarter. In addition, the magazine seeks to enrich content through commentaries by well-known and respected sports writers, detailed interviews with athletes, health and nutrition information provided by sports physicians, and reviews of the latest athletic products from wardrobes to equipment.

The magazine seeks to combat its competition by revamping their web site while maintaining focus on the core business. The project team proposes to develop and document the processes that would be required to create an online subscription renewal platform for Sportz which is capable of maintaining the name, address and contact details for each contributor, maintaining the details for each contribution including type, date, payment and subscription type, record which staff is working with which contributor aand tracking the status of each contribution. The team will not actually implement any of the solutions, whoever it will establish and document each step in the problem solving process from requirements gathering to analysis and design – only stopping at implementation.

4 PROJECT SCOPE

4.1 Goals and Objectives

Objectives
<ol style="list-style-type: none">1. Define/document project scope<ol style="list-style-type: none">a. Identify top-level requirements (requirements discovery)b. Identify factors/systems that will be affected by the projectc. Identify potential sources/domain expertsd. Identify potential constraintse. Conduct feasibility study2. Gather/document detailed requirements from requirements discovery<ol style="list-style-type: none">a. Establish business rulesb. Establish time-line for milestones/deliverables (Gantt chart)c. Delegate tasks from above based upon team member strengths3. Conduct domain analysis4. Establish/document use cases5. Establish structural modeling6. Establish dynamic modeling

4.2 Candidate Requirements

Area of Focus	Deliverable(s)
1. Contributors	<ul style="list-style-type: none">• Identify contributor type• Store information (contact) for new contributors• Manage information for existing contributors• Establish integrity of contributor• Assign staff partner for contributor• Track contributor progress
2. Accounting	<ul style="list-style-type: none">• Establish discounts based on subscriber type• Ensure secure/valid payment processing
3. Logistics	<ul style="list-style-type: none">• Verify that magazine is sent to subscribers• Track delivery• Mitigate shipping problems
4. Subscriptions	<ul style="list-style-type: none">• Store info for new subscribers• Identify type of subscriber (consumer/corporate)• Store info for existing subs• Track promotions for subscription types• Renew subscriptions
5. Marketing	<ul style="list-style-type: none">• Create promotions for subscriptions

	<ul style="list-style-type: none"> • Create subscription forms • Establish a web presence/platform for potential subscribers
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4.3 Schedule/Plan of Attack

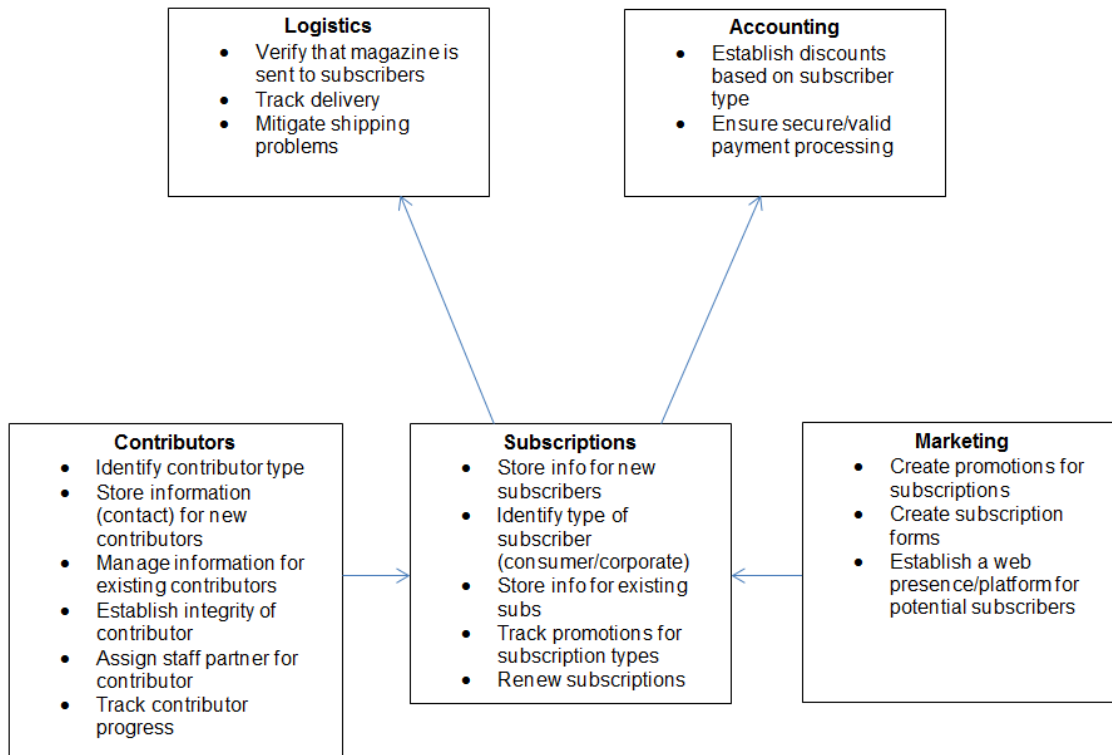
Task Name	Duration	Start	Finish	Predecessors	Resource Names
Scope Definition	5.5 days?	Thu 10/3/13	Thu 10/10/13		
Determine project scope	4 hrs	Thu 10/3/13	Thu 10/3/13		Team
Create Gantt chart	1 day	Thu 10/3/13	Fri 10/4/13	2	Team
Create summary and primitive tasks	1 day	Fri 10/4/13	Mon 10/7/13	3	Team
Document owner's view	1 day	Mon 10/7/13	Tue 10/8/13	4	Team
Establish candidate requirements	0 days	Tue 10/8/13	Tue 10/8/13	5	Team
Document statement of work	1 day?	Tue 10/8/13	Wed 10/9/13	6	Team
Scope complete	1 day?	Wed 10/9/13	Thu 10/10/13	7	Team
Domain Analysis	16 days?	Thu 10/10/13	Fri 11/1/13		
Determine domain scope	5 days	Thu 10/10/13	Thu 10/17/13	8	David
Document domain dictionary	3 days	Thu 10/17/13	Tue 10/22/13	10	Scottie
Create context diagram	2 days	Tue 10/22/13	Thu 10/24/13	11	Chelsea
Develop use case diagram	8 hrs	Thu 10/24/13	Fri 10/25/13	12	Shaun
Develop use case summary	0.5 days	Fri 10/25/13	Fri 10/25/13	13	David
Develop use cases	1 day	Mon 10/28/13	Mon 10/28/13	14	Ronnie
Create class diagram	1 day?	Tue 10/29/13	Wed 10/30/13	15	David
Establish sequence diagram	1 day?	Wed 10/30/13	Thu 10/31/13	16	Shaun
Establish activity diagram	1 day?	Thu 10/31/13	Fri 11/1/13	17	David
Analysis complete	0 days	Fri 11/1/13	Fri 11/1/13	18	Team
Design	20 days	Fri 11/1/13	Thu 11/28/13		
User Interface	5 days?	Mon 11/4/13	Fri 11/8/13		Team
Database Design	5 days?	Mon 11/11/13	Fri 11/15/13	21	Team
Design complete	1 day	Mon 11/25/13	Mon 11/25/13	22	Team

4.4 Business Rules

- Individuals
 - Subscriptions based on single-copy orders
 - Delivered to the individual's address directly
- Corporations
 - Subscriptions based on multiple-copy orders
 - Corporations receive 5% – 10% discount on orders
 - Delivered to designated unit heads
- Athletes
 - Not paid for contributions
 - Receive one-year subscription for one interview per year
 - Each extra interview means an additional one-year subscription
 - Should try to limit athletes to two interviews per year

- Writers
 - Receive one-year subscription for two contributions per year
- Domain Experts
 - Receive a one-year subscription for one article per year

4.5 Owner's View



5 Domain Analysis

5.1 Domain Scope

- Subscriptions
 - Subscription application
 - Subscription approval
 - Subscription renewal for user
 - Evaluate/update subscription type (corporate/consumer/contributor)
 - Issue discount based upon user type
- Contributors
 - Store contributor contact/info
 - Manage collaboration between contributor and staff
 - Track contribution status
 - Record previous contributions
 - Contribution approval system
- Accounting
 - Track user payment information
 - Work with bank to validate credit card
 - Work with bank to charge card
 - Establish system for corporate users

5.2 Domain Dictionary

DOMAIN	SCOPE OUTLINE
Subscriptions	The subscription process includes: <ul style="list-style-type: none"> • Subscription cycle • Subscription Renewal
Advertising	Advertising is based on length of customer subscriptions to get their products viewed by a specific demographic.
Editorials	The contributor process follows rules based on :
Distribution	Personal distribution flow vs. commercial distribution flow
Payables	Monies paid to contributors, employees
Receivables	Monies received from customers, advertising

NAME	TYPE	DESCRIPTION
Advertisement	Object	Ad located in the magazine promoting a product or service
Advertiser	Role	Magazine advertises products/services in exchange for \$
Advertisee	Role	Company or person who pays the magazine to place their ad in the magazine

Advertise	Process	Validate ad content meets magazine standards and place in magazine

NAME	TYPE	DESCRIPTION
Distribution	Process	Act of sending magazine to customer
Individual Customer	Role	Person who has only one subscription that is delivered directly to their address
Corporate Customer	Role	Company with multiple subscriptions that get delivered to a unit head for further distribution
Distribution Manager	Role	Verifies subscription information and sends product through the distribution chain
Distribution Chain	Process	Distribution manager places magazine in mail to proper addressee

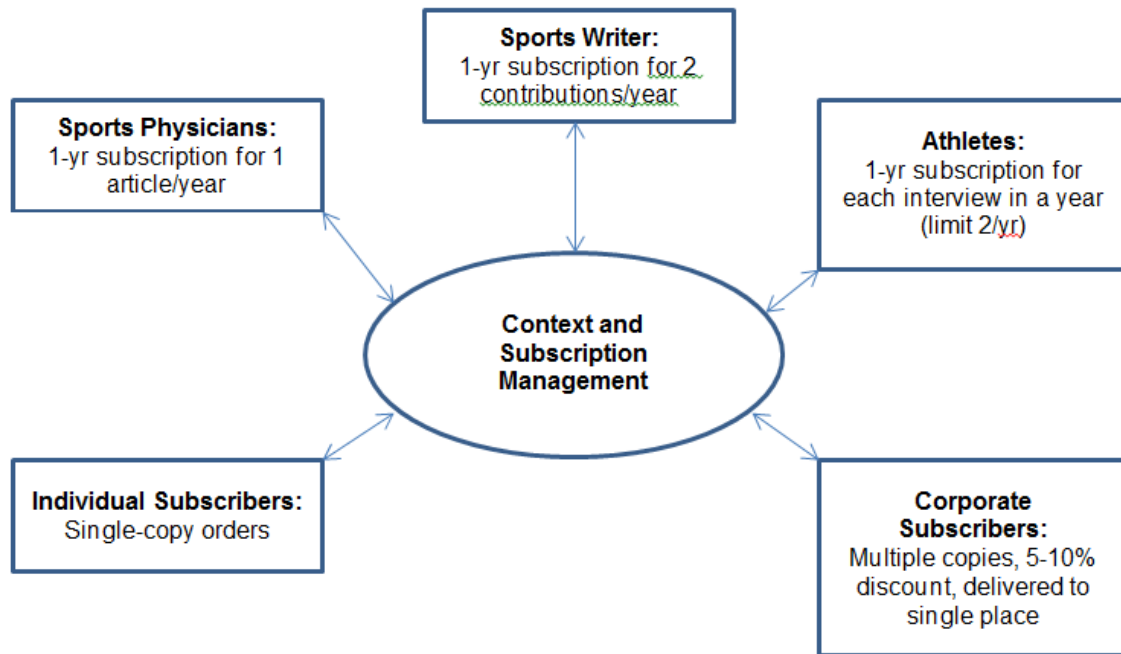
NAME	TYPE	DESCRIPTION
Contributor	Role	Person who provides an article for publication in the magazine.
Editorial	Object	The article a contributor submits to be placed in the magazine.
Contribution	Process	Provide content for magazine to include on its pages
Editor	Role	Verify content and source

NAME	TYPE	DESCRIPTION
Payable	Object	Anything the magazine owes, such as subscriptions to contributors, shipping costs, payroll, etc.
Payable	Function	The act of paying what is owed, whether to employees, third-parties, or as subscriptions to contributors
Payee	Role	Person or Company who receives some form of payment from the magazine
Payable	Process	Validation by payable clerk of the amount/type of payable and length of terms
Payable Clerk	Role	Person who validates payable and records transaction in ledger

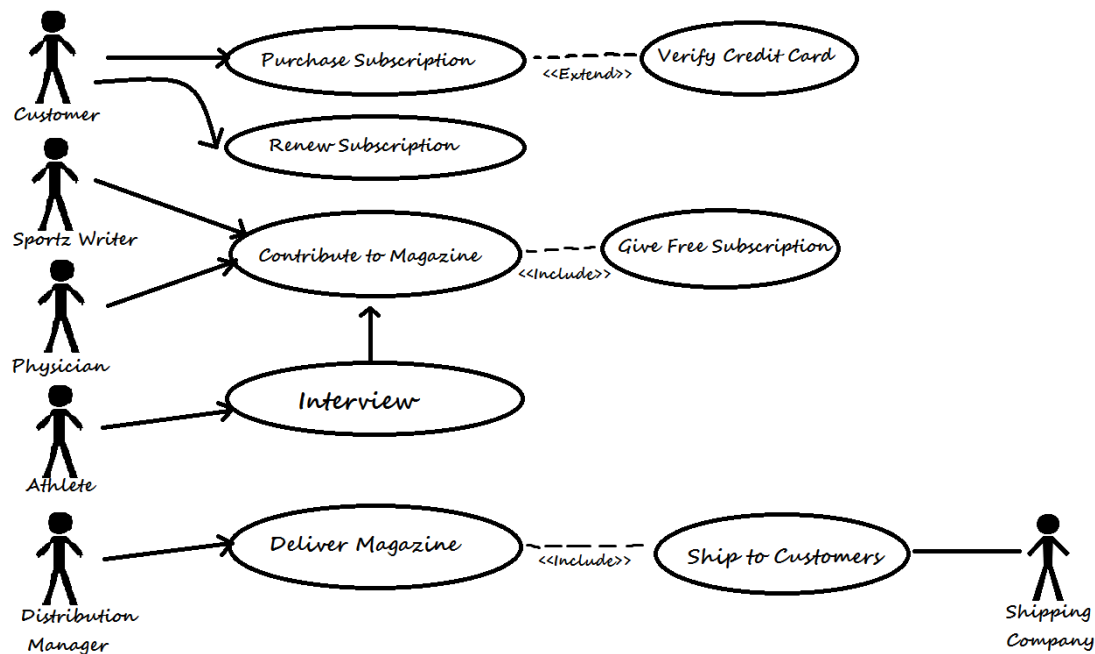
NAME	TYPE	DESCRIPTION
Receivable	Object	Amount or contribution the magazine expects to receive
Receivable	Function	The act of receiving money from subscriptions or contributions to the magazine in exchange for providing the magazine
Receivable	Process	Validation by receivable clerk of the amount/type of receivable
Receivable Clerk	Role	Person who validates receivable and records transaction in ledger

NAME	TYPE	DESCRIPTION
Subscription	Process	Scheduling of a customer to receive a magazine.
Subscription Cycle	Object	Date and frequency with which a subscriber receives the magazine.
Subscription Clerk	Role	Inputs subscription for the customer
Renewal Subscription	Process	Continuing a subscription past the original ending date

5.3 Context Diagram



5.4 Use Case Diagram



5.5 Use Case Summary

Sportz Magazine – Subscription Management Use Case Summary			
ID	Name	Description	Actors
000	Apply to Subscribe	Applicant browses to online subscription application, chooses the type of subscription, enters contact and payment information and submits the application.	<ul style="list-style-type: none"> • Applicant
005	Approve Subscription	Subscription Staff verifies new Applicant account, that the application is successfully filled out and that payment is valid. Subscription Staff approves subscription and Applicant is notified.	<ul style="list-style-type: none"> • Subscription Staff • Payment System
010	Complete Subscription	Subscription Staff applies any promotions/discounts and calculates final fee to payment system. Subscription staff adds new subscriber to database.	<ul style="list-style-type: none"> • Subscription Staff • Payment System
015	Give Free Subscription	After approval, contributors receive free subscription.	<ul style="list-style-type: none"> • Subscription Staff
020	Renew Subscription	If a subscription is ending, notify subscriber to renew.	<ul style="list-style-type: none"> • Subscriber • Information System
025	Verify Credit Card	Subscription staff sends payment information to bank/payment system and the system validates said information.	<ul style="list-style-type: none"> • Subscription Staff • Payment System
030	Charge Credit Card	Subscription staff calculates final fee and sends to the payment system to charge the credit card.	<ul style="list-style-type: none"> • Subscription System • Payment System
035	Get Contributions	Contributions are one of the main source of articles for the magazine. The magazine's Collaborator works with the Contributor to track all of the Contributor's information. The Contributor needs to be able to track his/her information online with the new system.	<ul style="list-style-type: none"> • Collaborator
040	Conduct Interview	The process by which an Athelete interviews with the magazine writers to produce an article. The athelete's interview is recorded in the system so that the interview can be contributed	<ul style="list-style-type: none"> • Contributor • Collaborator

		for the magazine and the athlete reimbursed via a free subscription to the magazine.	
045	Deliver Magazine (Corporate)	Customers with multiple subscriptions have magazine sent to a unit head who finishes the distribution	<ul style="list-style-type: none"> • Distribution Manager • Shipping Company
050	Deliver Magazine (Individual)	Preparation of magazine to be shipped to residential customer.	<ul style="list-style-type: none"> • Distribution Manager • Shipping Company
055	Ship to Customer	Magazine placed in care, custody and control of shipping company	<ul style="list-style-type: none"> • Distribution Manager • Shipping Company • Customer

5.6 Use-Cases

Use Case:	Apply to Subscribe
ID:	000
Scope:	Subscription Management
Priority:	1/5
Summary:	Applicant browses to online subscription application, chooses the type of subscription, enters contact and payment information and submits the application.
Primary Actor:	Applicant
Supporting Actors:	
Stakeholders:	<ul style="list-style-type: none"> ▪ Magazine – Wants that cash. Must deliver subscription.
Generalization:	
Include:	
Extend:	
Precondition:	Applicant is a new subscriber.
Trigger:	
Normal Flow:	<ol style="list-style-type: none"> 1. Applicant browses to online subscription application. 2. Applicant chooses the type of subscription – can be individual

	or corporate. 3. Applicant enters contact information. 4. Applicant enters payment information. 5. Applicant submits application.
Sub Flows:	4.1. Applicant enters name 4.2. Applicant enters address 4.3. Applicant enters phone number 4.4. Applicant enters email
Alternate Flow/ Exceptions:	2.a. If Applicant is corporate, enter the number of copies.
Post-Condition:	Application submits and is ready for review by Subscription Staff.
Open Issues:	
Source:	
Author:	David Hodge
Revision & Date:	1.0 10/22/2013

Use Case:	Approve Subscription
ID:	005
Scope:	Subscription Management
Priority:	1/5
Summary:	Subscription Staff verifies new Applicant account, that the application is successfully filled out and that payment is valid. Subscription Staff approves subscription and Applicant is notified.
Primary Actor:	Subscription Staff
Supporting Actors:	<ul style="list-style-type: none"> ▪ Bank/Payment Service
Stakeholders:	<ul style="list-style-type: none"> ▪ Magazine – Got that cash. Must deliver magazines. ▪ Applicant – Wants a subscription.
Generalization:	
Include:	025: Verify Credit Card.
Extend:	
Precondition:	System receives the new application.
Trigger:	System informs Subscription Staff that there is a new application waiting to be approved.
Normal Flow:	6. Subscription staff verifies that the account is new. 7. Subscription staff verifies application information.

	8. Subscription staff verifies payment. (Include 025: Verify Credit Card) 9. Subscription staff approves the application. 10. Applicant is notified by subscription staff.
Sub Flows:	
Alternate Flow/ Exceptions:	1.a. Not a new account. Reject application, tell Applicant. 3.a. Invalid payment. Reject application, tell Applicant.
Post-Condition:	Subscription staff approves new subscription.
Open Issues:	
Source:	
Author:	David Hodge
Revision & Date:	1.0 10/22/2013

Use Case:	Complete Subscription
ID:	010
Scope:	Subscription Management
Priority:	3/5
Summary:	Subscription Staff applies any promotions/discounts and calculates final fee to payment system. Subscription staff adds new subscriber to database.
Primary Actor:	Subscription Staff
Supporting Actors:	<ul style="list-style-type: none"> ▪ Bank/Payment Service
Stakeholders:	<ul style="list-style-type: none"> ▪ Magazine – Got that cash. Must deliver magazines. ▪ Applicant – Wants a subscription.
Generalization:	
Include:	030: Charge Credit Card.
Extend:	
Precondition:	Application is approved.
Trigger:	
Normal Flow:	11. Subscription Staff applies discount(s). 12. Subscription Staff calculates final fee. 13. Subscription Staff sends fee to payment system. (Include 030: Charge Credit Card) 14. Subscription Staff adds new subscriber to database.

Sub Flows:	
Alternate Flow/ Exceptions:	
Post-Condition:	New subscription complete, added to database.
Open Issues:	
Source:	
Author:	David Hodge
Revision & Date:	1.0 10/22/2013

Use Case:	Give Free Subscription
ID:	015
Scope:	Subscription Management
Priority:	2/5
Summary:	After approval, contributors receive free subscription.
Primary Actor:	Subscription Staff
Supporting Actors:	
Stakeholders:	<ul style="list-style-type: none"> ▪ Contributor – entitled to free subscription ▪ Magazine – responsible for magazine delivery
Generalization:	
Include:	
Extend:	
Precondition:	Contributor must create a contribution.
Trigger:	
Normal Flow:	<p>15. Staff reviews Contributor's contributions</p> <p>16. Staff creates new account for Contributor</p> <p>17. Staff approves Contributor's free subscription.</p> <ul style="list-style-type: none"> a. Physician must contribute at least one article per year b. Athlete – one interview per year c. Writer – two articles per year <p>18. Contributor receives subscription.</p>
Sub Flows:	
Alternate Flow/ Exceptions:	2.a. Previous Contributor already has account. Existing subscription is extended.
Post-Condition:	Contributor receives free subscription.

Open Issues:	
Source:	▪ Source of information for this use case
Author:	Ronnie Goodrich
Revision & Date:	1.0 10/22/2013

Use Case:	Renew Subscription
ID:	020
Scope:	Subscription Management
Priority:	3/5
Summary:	If a subscription is ending, notify subscriber to renew.
Primary Actor:	Subscriber
Supporting Actors:	▪ Information System
Stakeholders:	▪ Subscriber – wants to keep subscription ▪ Magazine – wants that continued cash.
Generalization:	
Include:	
Extend:	
Precondition:	
Trigger:	Subscription is about to expire.
Normal Flow:	19. System tells user of upcoming subscription expiration. 20. Subscriber browses to subscription renewal page. 21. Subscriber chooses renewed subscription type. 22. Subscriber enters payment information. 23. Subscriber submits renewal. 24. System confirms renewal.
Sub Flows:	
Alternate Flow/ Exceptions:	
Post-Condition:	Renewal is submitted.
Open Issues:	
Source:	
Author:	David Hodge
Revision & Date:	1.0 10/22/2013

Use Case:	Verify Credit Card
ID:	025
Scope:	Subscription Management
Priority:	3/5
Summary:	Subscription staff sends payment information to bank/payment system and the system validates said information.
Primary Actor:	Subscription Staff
Supporting Actors:	<ul style="list-style-type: none"> ▪ Payment System
Stakeholders:	<ul style="list-style-type: none"> ▪ Applicant – wants to create subscription. ▪ Magazine – wants that continued cash. ▪ Subscription Staff – needs to know how to proceed with application.
Generalization:	
Include:	
Extend:	
Precondition:	
Trigger:	Subscription Staff sends request to payment system.
Normal Flow:	<p>25. Subscription Staffs sends payment info from application to payment system.</p> <p>26. Payment system validates payment information.</p> <p>27. Payment system sends approval to Subscription Staff.</p>
Sub Flows:	
Alternate Flow/ Exceptions:	<p>2.a. Payment information is not valid.</p> <p>3.a. Payment system sends rejection to Subscription Staff.</p>
Post-Condition:	Payment is verified.
Open Issues:	
Source:	
Author:	David Hodge
Revision & Date:	1.0 10/22/2013

Use Case:	Charge Credit Card
ID:	030
Scope:	Subscription Management

Priority:	2/5
Summary:	Subscription staff calculates final fee and sends to the payment system to charge the credit card.
Primary Actor:	Subscription Staff
Supporting Actors:	<ul style="list-style-type: none"> ▪ Payment System – facilitates payment.
Stakeholders:	<ul style="list-style-type: none"> ▪ Applicant – wants to create subscription. ▪ Magazine – wants that continued cash.
Generalization:	
Include:	
Extend:	
Precondition:	Payment information is validated and subscription application is approved.
Trigger:	Subscription Staff sends fee to payment system.
Normal Flow:	<p>28. Subscription Staff calculates final fee</p> <p>29. Subscription Staff sends final fee to payment system</p> <p>30. Payment system charges fee to subscribers credit card</p>
Sub Flows:	
Alternate Flow/ Exceptions:	
Post-Condition:	Payment is processed.
Open Issues:	
Source:	
Author:	David Hodge
Revision & Date:	1.0 10/22/2013

Use Case:	GET CONTRIBUTIONS FOR MAGAZINE
ID:	035
Scope:	Subscription Management
Priority:	4/5
Summary:	Contributions are one of the main source of articles for the magazine. The magazine's Collaborator works with the Contributor to track all of the Contributor's information. The Contributor needs to be able to track his/her information online with the new system.
Primary Actor:	Collaborator

Supporting Actors:	
Stakeholders:	▪ Contributors – Provide contributions for magazine.
Generalization:	
Include:	▪ 040: Give Free Subscription
Extend:	
Precondition:	The collaborator has verified that the contributor has been contacted and has agreed to write an article.
Trigger:	The collaborator is informed that the date and subject matter of the article has been determined.
Normal Flow:	<ol style="list-style-type: none"> 1. Collaborator receives contribution from contributor. 2. Collaborator enters or updates the contact information for the contributor. 3. Collaborator enters contribution details. (Include: 040: Give Free Subscription.) 4. Collaborator records which editor is working with the contributor. 5. Collaborator tracks the status of the contribution.
Sub Flows:	<ol style="list-style-type: none"> 2.1 Collaborator enters contributor's name. 2.2 Collaborator enters contributor's address. 2.3 Collaborator enters contributor's contact number. 3.1 Collaborator enters contribution type. 3.2 Collaborator enters contribution dates. 3.3 Collaborator enters contribution payments. 3.4 Collaborator enters contribution complimentary subscription type details. (Include: 040: Give Free Subscription.)
Alternate Flow/ Exceptions:	
Post-Condition:	The contributor can verify his/her contribution information on the new system website.
Open Issues:	<ol style="list-style-type: none"> I.1 If a sports physician writes more than one article per year, how many additional one-year subscriptions to the magazine can he/she receive? I.2 If a sports writer writes more than two articles per year, how many additional one-year subscriptions to the magazine can he/she receive?
Source:	
Author:	Chelsea Grindstaff
Revision & Date:	1.0 10/22/2013

Use Case:	Conduct Interview
ID:	040
Scope:	Contributions to magazine
Priority:	Subscription Management
Summary:	The process by which an Athlete interviews with the magazine writers to produce an article. The athlete's interview is recorded in the system so that the interview can be contributed for the magazine and the athlete reimbursed via a free subscription to the magazine.
Primary Actor:	Contributor
Supporting Actors:	Collaborator
Stakeholders:	<ul style="list-style-type: none"> ▪ Customer (reads the interview) ▪ Writer (records the interview and writes the article) ▪ Athlete (receives subscription based on contribution)
Generalization:	Contribution
Include:	<ul style="list-style-type: none"> ▪ Contribute ▪ Give Free Subscription
Extend:	
Precondition:	
Trigger:	Athlete agrees to give interview.
Normal Flow:	<ol style="list-style-type: none"> 1. Writer asks to interview athlete 2. Sportz Management grants writer permission to interview. 3. Writer Interviews athlete. 4. Interview is contributed to magazine. 5. Athlete gets 1 year free subscription. 6. It is recorded that they have been interview once this year.
Sub Flows:	<p>2.1 Management checks to see if the athlete has been interviewed before.</p> <p>2.2 Management can grant interview if athlete has not been interviewed before.</p>
Alternate Flow/ Exceptions:	<p>2.a Management can grant exception to preference in rare cases.</p> <p>3.a Writer does not interview.</p>
Post-Condition:	Interview must be Contributed to magazine.
Open Issues:	
Source:	
Author:	Shaun Carter

Revision & Date:	1.0 10/22/2013
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Use Case:	Deliver Magazine- Corporate Subscribers
ID:	045
Scope:	Distribution
Priority:	4/5
Summary:	Customers with multiple subscriptions have magazine sent to a unit head who finishes the distribution
Primary Actor:	Distribution Manager
Supporting Actors:	Shipping company
Stakeholders:	▪ Distribution Manager
Generalization:	
Include:	▪ Ship to Customer
Extend:	
Precondition:	Payment of subscription, multiple subscriptions
Trigger:	Quarterly cycle
Normal Flow:	<ol style="list-style-type: none"> 1. Send magazine to unit head 2. Unit head distributes magazines throughout company
Sub Flows:	
Alternate Flow/ Exceptions:	1.a Additional subscriptions/cancellation of subscriptions
Post-Condition:	Magazines are distributed to corporate customer's unit head
Open Issues:	I.1 Change in unit head, how to reroute to new unit head.
Source:	▪ Sportz Magazine charter
Author:	Scottie Godfrey
Revision & Date:	1.0 11/5/2013

Use Case:	Deliver Magazine- Individual Subscribers
ID:	050
Scope:	Distribution
Priority:	4/5
Summary:	Preparation of magazine to be shipped to residential customer.
Primary Actor:	Distribution manager

Supporting Actors:	Shipping company
Stakeholders:	▪ Distribution Manager
Generalization:	
Include:	▪ Ship to Customer
Extend:	
Precondition:	Payment of subscription
Trigger:	Quarterly cycle
Normal Flow:	<ol style="list-style-type: none"> 1. Send magazine to shipping company for delivery 2. Shipping Company delivers magazine to customer
Sub Flows:	
Alternate Flow/ Exceptions:	1.a If customer cancels subscription, make sure magazine does not go to shipping company for that customer
Post-Condition:	Magazine is delivered to customer
Open Issues:	I.1 Which shipping company is cheapest and most reliable?
Source:	▪ Sportz Magazine charter
Author:	Scottie Godfrey
Revision & Date:	1.0 11/5/2013

Use Case:	Ship to Customer
ID:	055
Scope:	Distribution
Priority:	Priority on scale (i.e., 1/5, 2/5, 5/5)
Summary:	Magazine placed in care, custody and control of shipping company
Primary Actor:	Distribution manager
Supporting Actors:	Shipping company, customer
Stakeholders:	▪ Distribution Manager
Generalization:	
Include:	
Extend:	
Precondition:	Distribution manager approval
Trigger:	Quarterly cycle
Normal Flow:	<ol style="list-style-type: none"> 1. shipping company sends magazine to last known address 2. customer receives magazine

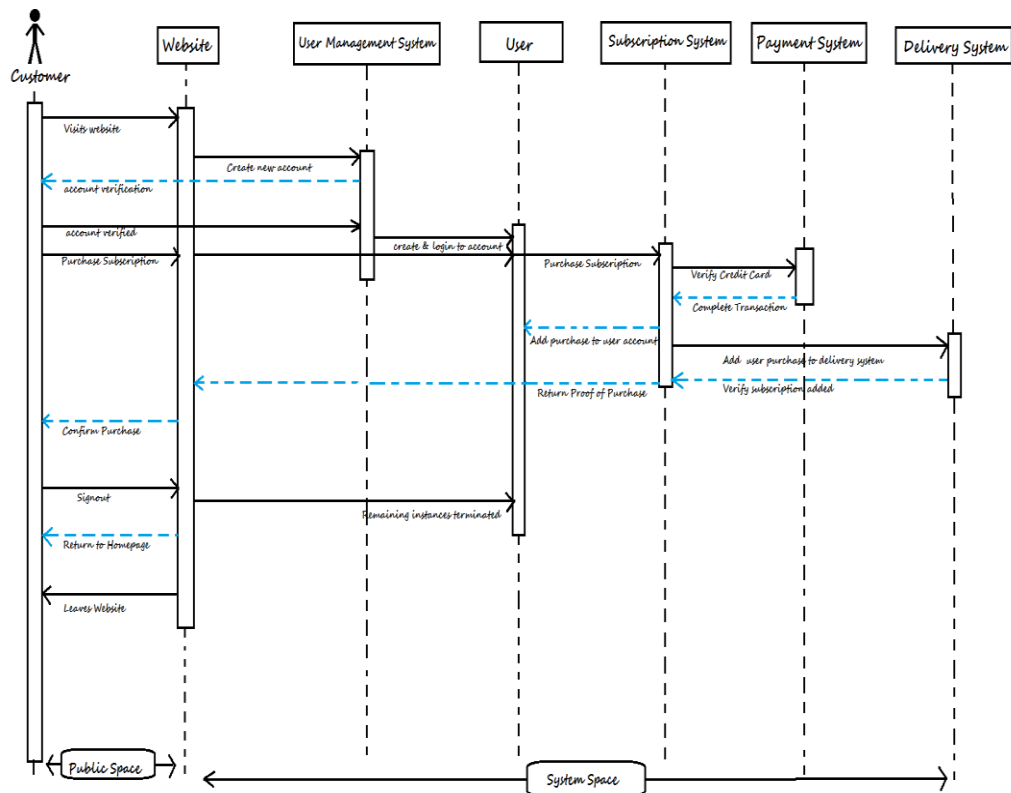
Sub Flows:	
Alternate Flow/ Exceptions:	1.a return to sender, refuse delivery, cancel subscription
Post-Condition:	Customer takes care, custody and control of magazine
Open Issues:	I.1 Which shipping company is cheapest and most reliable? What service levels are needed to insure magazine is not damaged in route to customer.
Source:	▪ Sportz Magazine charter
Author:	Scottie Godfrey
Revision & Date:	1.0 11/5/2013

5.7 Class Diagram

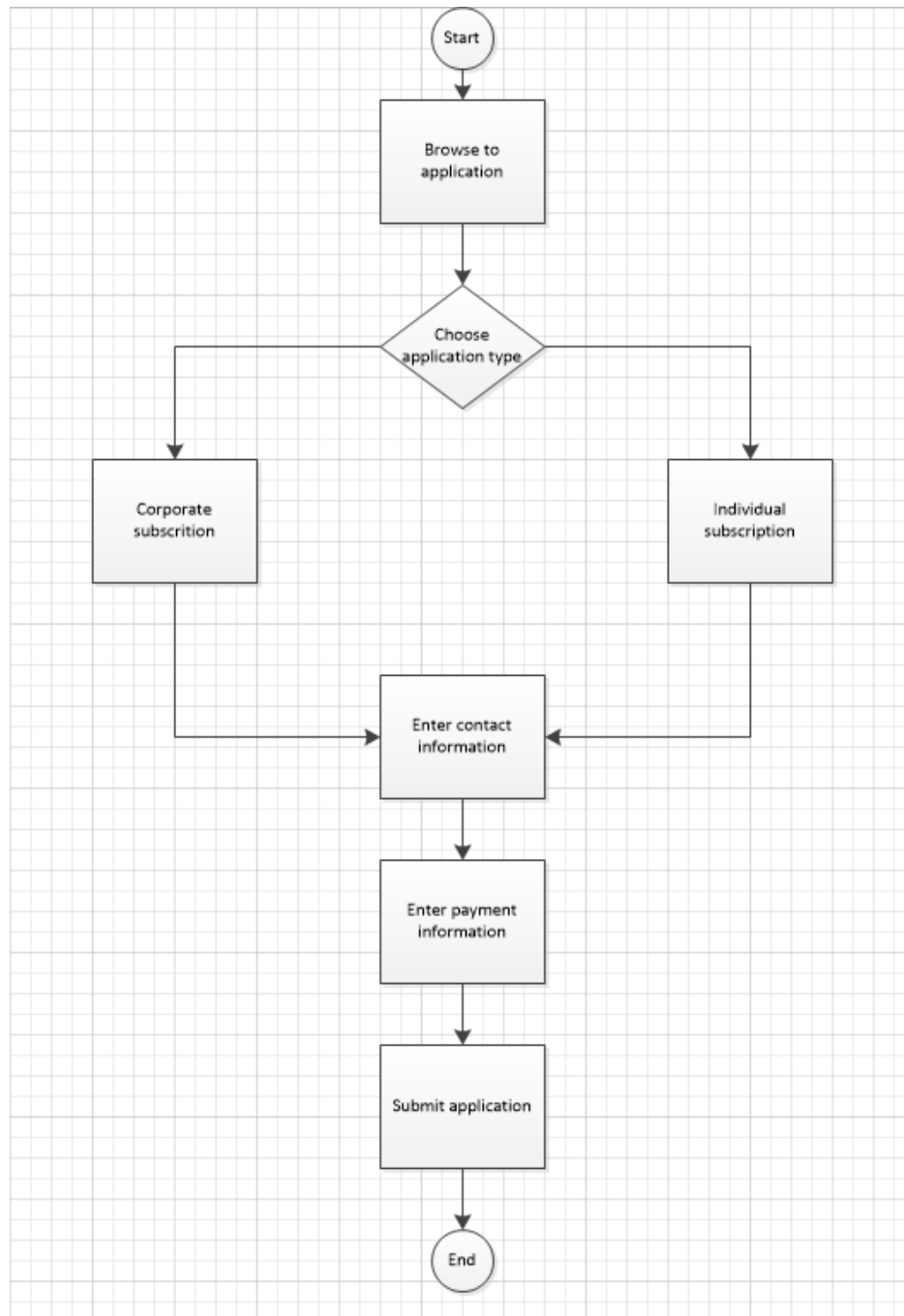
Class	Responsibilities	Use Cases
Contributor	<ul style="list-style-type: none"> Contributor ID Contributor name Contributor phone Contributor address Contributor email 	<ul style="list-style-type: none"> 035
Contribution	<ul style="list-style-type: none"> Contribution ID Date of contribution Title of contribution Contribution frequency Contributor ID 	<ul style="list-style-type: none"> 035
Subscriber	<ul style="list-style-type: none"> Subscriber ID Subscriber name Subscriber phone/address/email Send renewal message 	<ul style="list-style-type: none"> 000
Payment	<ul style="list-style-type: none"> Payment ID Type Amount 	<ul style="list-style-type: none"> 010 030

	<ul style="list-style-type: none"> • Apply discount • Calculate total • Card ID 	
Credit	<ul style="list-style-type: none"> • Card ID • Card number • Cardholder name • Bank • Validation • Charge • Subscriber ID 	<ul style="list-style-type: none"> • 025 • 030
Subscription	<ul style="list-style-type: none"> • Sub ID • Sub type • Sub length • Mailing address • Number of subscriptions 	<ul style="list-style-type: none"> • 000 • 005 • 010

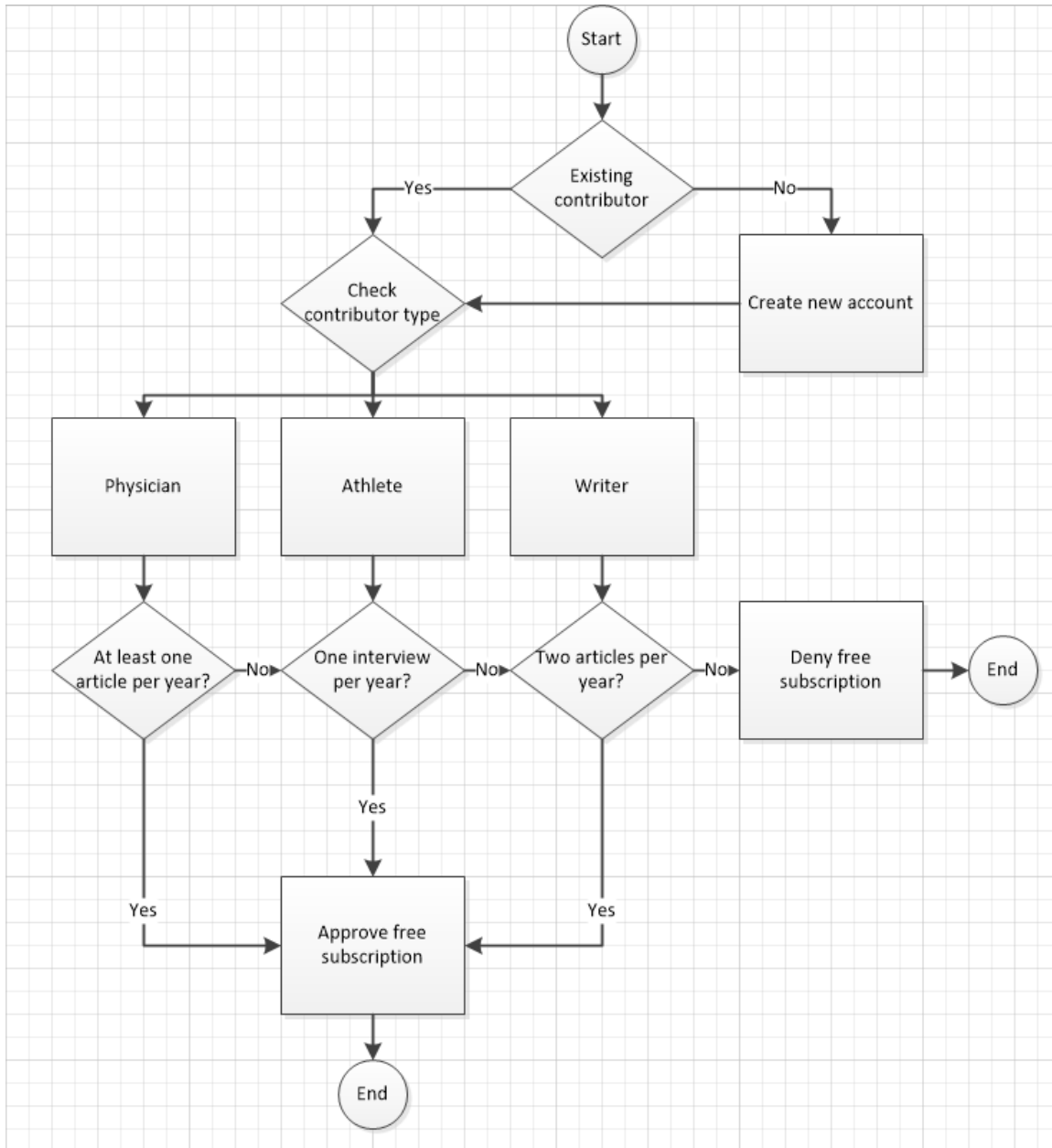
5.8 Sequence Diagram



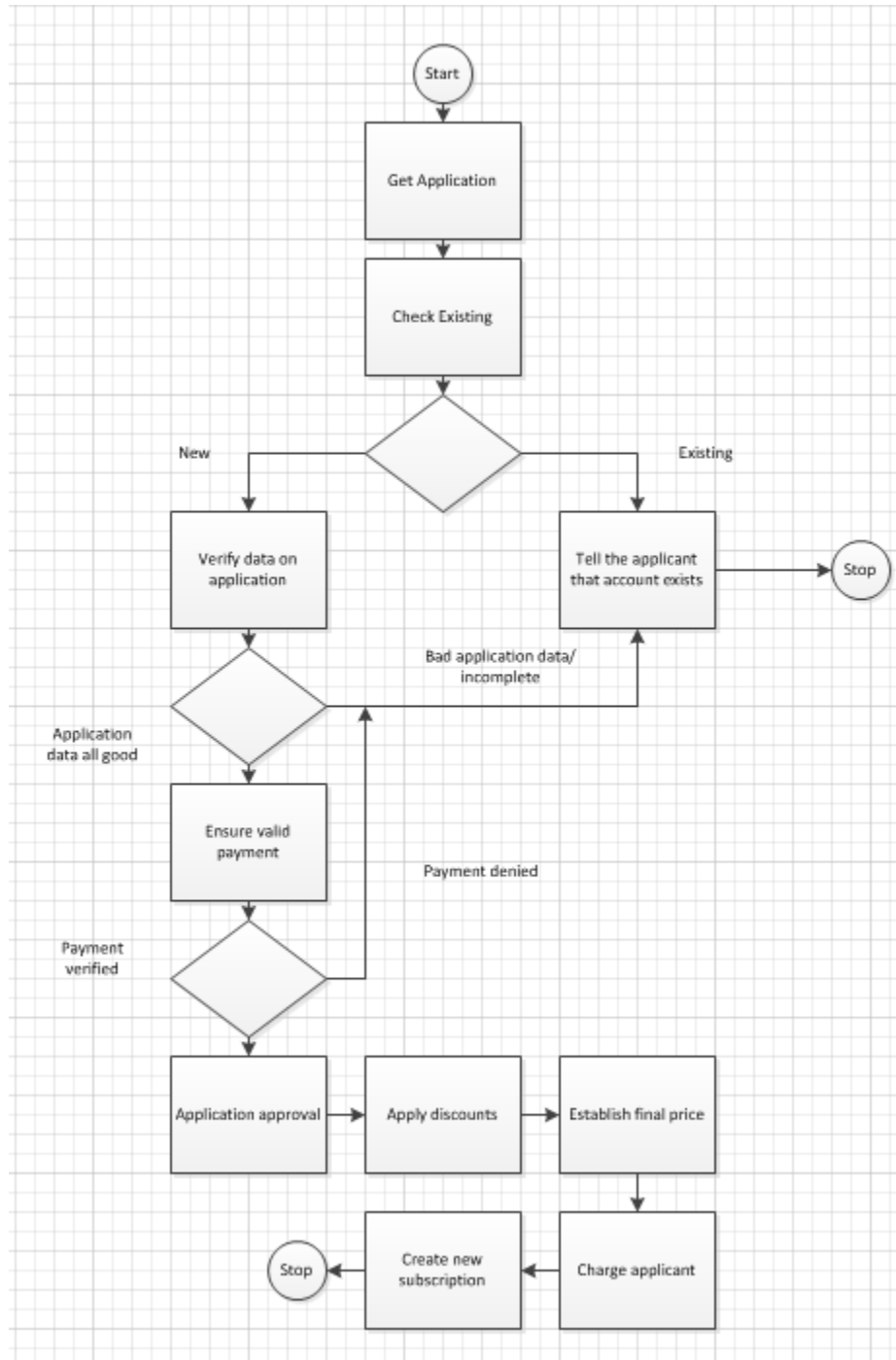
5.9 Activity Diagram



Activity Diagram: Submit Application



Activity Diagram: Give Free Subscription



Activity Diagram: Overall Process

6 Design

6.1 User Interface

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27	28	29	30	31	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
1	2	3	4	5	6	7

Submit Application

6.2 Database Design

