

PROJECT PLAN:

INTROCONDUIT

BY

VENKAT SAI KARTHIK, SHARVIRALA –CLASS ID -30

VISHNU CHANDER, RAINIGARI –CLASS ID-27

KINERRA, SHYAM RAJ-CLASS ID-18

INTRODUCTION:

This project INTRO-CONDUIT is a web based application which offers various services to introverts. The main objective to make the website more welcoming for the introverts than the existing one present on web.

OVERALL GOAL:

The overall goal of this project is to create a website which fuses different other existing sites. This website is going to consist of different features as, providing membership for people who register, a forum where people post their questions and many different other users answer them, where an admin also gives the answer, this website also provides a different set of articles and papers, research work already published. And this website includes a quiz, which allows users to take different quizzes for evaluating their personalities and in better understanding themselves. This website will give links to different counselling centers and psychology doctors and hospitals with locations enabled which direct them to different sites or locations in maps. The site will give a specified book recommendation for the users which allows them to take to sites such as Amazon to purchase. This site will also try to provide making a chat session, which allows the registered users to talk and connect.

SPECIFIC OBJECTIVES:

- The initial service is to provide membership to all the people who would register for the website where they can use a number of services offered when once logged into website.
- The website users can use the Forum which spreads at the center of the website, where the members of this site will post or ask different questions where a number of people who are already registered for this website can answer them and discuss that question posted or the topic raised. This site will have an additional feature for the administrator of the website to give an answer or opinion irrespective of the answers given by members.
- This website features a quiz where users can take the quiz and evaluate their personality and a clear result is given at the end describing the results generated.
- The users of this website will be able to look into and read a number of articles written on them and various research papers published. The readers would be able to download the pages published in PDF format.
- The Users of this website will be able to look at number of books published on different personalities, they can read the description of the book and when clicked over the book and different details like Author's name, ISBN Code, publishing year, publishing house and the link takes them to book shopping site- Amazon and they could make purchase if they wish.

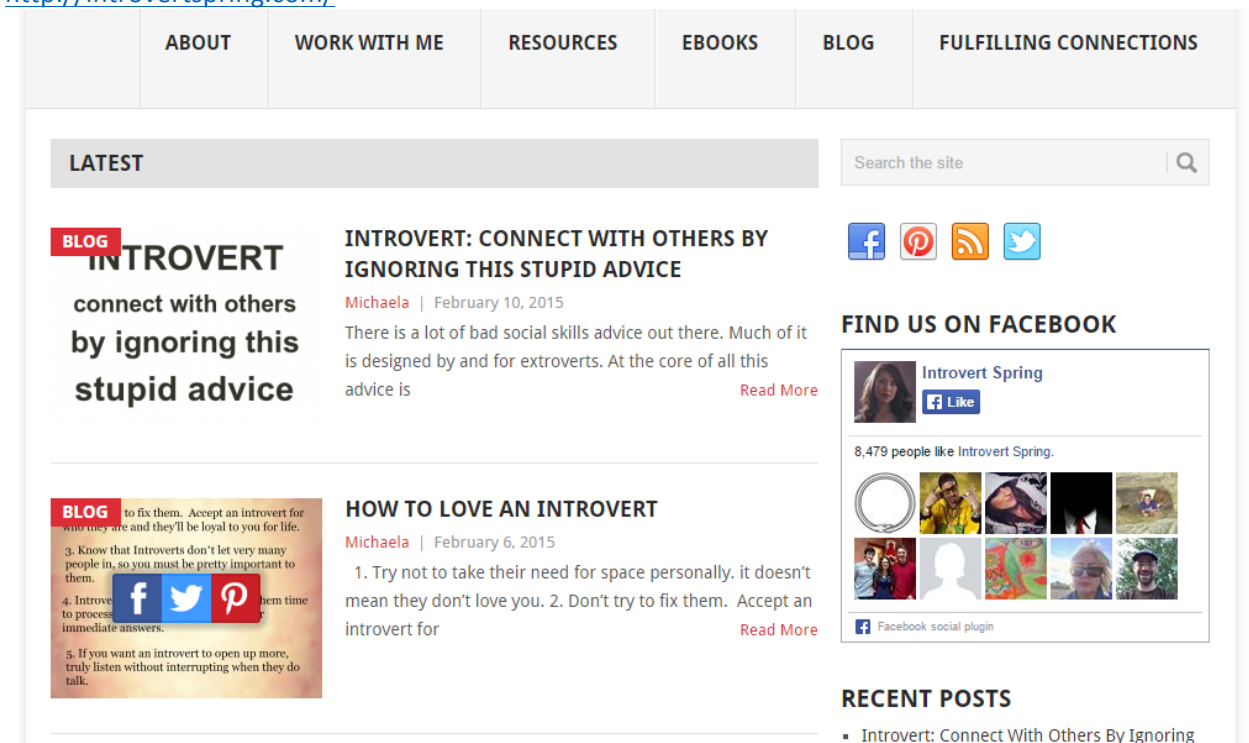
- The members registered for this site will be able to use links to different counselling centers and psychology doctors and hospitals with locations enabled which direct them to show locations in maps and also took to different sites if required.
- In design, this website will also feature a banner which slides different quotes on introverts, where a user can slide the quotations with help of a right and left click of mouse by clicking them at the right center and left center corners of the banner.
- This website may also integrate a chat session which allows all the registered users to be online/offline, if online will allow them to chat among themselves and connect themselves.

SIGNIFICANCE:

The main significance of our project is to address and solve basic daily issues an introvert face. The major motive is to make this website a home and a lot welcoming. This website creates a platform for people who needs quiet stimulating environment.

PROJECT BACKGROUND AND RELEATED WORK:

1. <http://introvertspring.com/>



The website which motivated us to generate a new website for introverts is INTROVERTSSPRING.COM. In this the website's administrator or the author Michaela use this website as a blog to posts various number of posts on a regular basis. This website also provide other resources such as one book, One hundred introvert questions (with generalized answer), and numerous quotations on Introverts.

SIMILARITIES:

We don't see much similarities apart for the basic thought – 'A Website on Introverts'.

- The basic thought, 'A website on introverts' with similar subject and significance.
- This website will also shows different quotations like the proposed one.

DIFFERENCES:

- This website mainly concentrates being a blog and users reading them whereas the INTROCONDUIT focuses on many things providing resources to users.
- This website doesn't provide any facility like membership where users would be able to access material, posts and articles.
- Even though this website provides a list of hundred questions on introverts with answers, the user wouldn't be able to express his/her opinion and wouldn't be able to get other people opinions whereas forum would be much better which allows him to ask his own question and get answers for them.
- This website provides quotations just listed one by one, but INTROCONDUIT will feature a banner where quotations slide which appears more appealing than the listed once.
- This website doesn't provide links to hospitals and psychologists which will be integrated

2. <http://www.thepowerofintroverts.com/>

How Pursuing a Quest Can Bring Purpose to Your Life

Author: Susan Cain

4 COMMENTS »



Twelve years ago, I walked into a cafe, laptop in hand, to begin a grand adventure.

My adventure did not involve swords, dragons or golden cups; it didn't require me to hike the Appalachian trail or steer a boat solo across the world. All I had to do was sip a cappuccino and tap away at my keyboard.

Enlist in the **Quiet** Revolution

Join now for free email updates from Susan Cain!

Email Address:

Name:

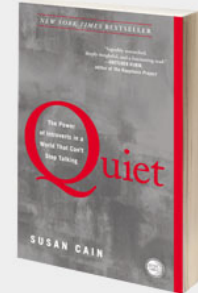
Sign Up

Quiet: The Book

The acclaimed *New York Times* bestseller, now in paperback:

ORDER IT NOW

**SIGNED COPIES
NOW AVAILABLE!**



"Rich, intelligent..."



This website is quite similar to the Introvertspring and is mainly author or administrative edit based. Most of the website concentrates on the author's book 'QUIET' and posts written by author.

SIMILARITIES:

- The basic thought, 'A website on introverts' with similar subject and significance.
- This website too provides different resources to users like newsletter and posts to read.

DIFFERENCES:

- The main differences between this website and INTROCONDUIT is that ,this site doesn't provide additional features like the one provided by INTROCONDUIT, it only links to the book 'QUIET' but doesn't link to another books of related genre.
- Features like articles and posts, quotations, providing membership is not done by this website.
- It features a quiz only related to introversion, but not on other personalities and it doesn't provide clear evaluation of results.
- This website doesn't provide links to hospitals and psychologists which will be integrated.

REQUIREMENT SPECIFICATIONS:

FUNCTIONAL/NON-FUNCTIONAL/TECHNICAL REQUIREMENTS

- **Functional Requirements**
 1. A registered user should be able to login
 2. A registered user should be able to post his question or opinion in the forum
 3. A registered user should be able to give comments, follow to a post done.
 4. All posts, comments should be editable, able to delete by the user posted.
 5. All registered users must go to book links provided and it must direct them to purchasing site
 6. All links to counselling/psychology/hospitals must take them to the locations and maps
 7. All pages/posts/articles provided should allow registered users to download them
 8. All quizzes must generate results upon clicking submit

9. All users must be able to move quotations on quotations banner with mouse.
10. All quizzes must warn users if he didn't answer any question
11. If a non-registered user tries to get access something which can't be accessible a popup message should appear.

• **Non-functional Requirements:**

1. The quotations banner must slide quotations all the time.
2. System should perform well even many number of users logging in at same time and it's a implementation requirement.

SYSTEM ARCHITECTURE DIAGRAM:

This web-application will be based on general MVC model-view-controller architecture

It consists of a front-end part, a backend and a database engine.

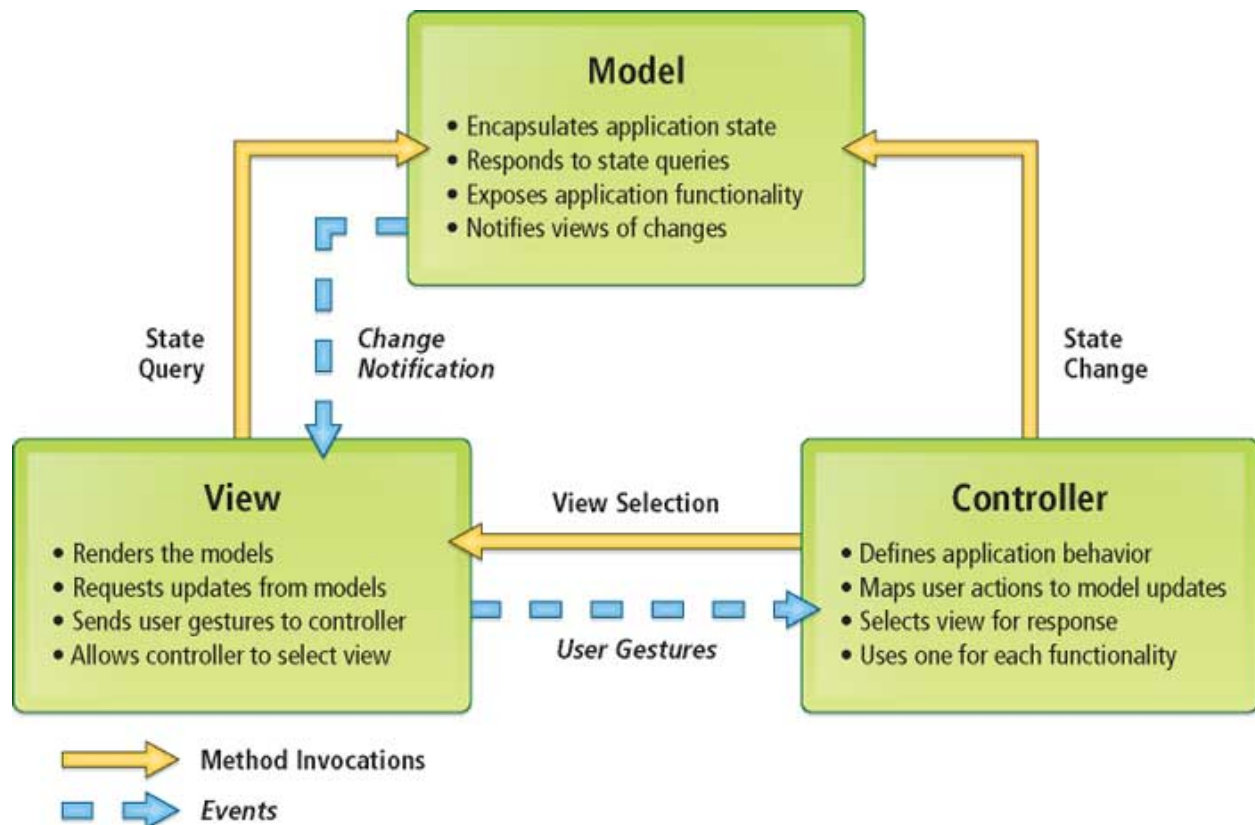


Fig1: System Architecture

ARCHITECTURE OF A WEB-APPLICATION:

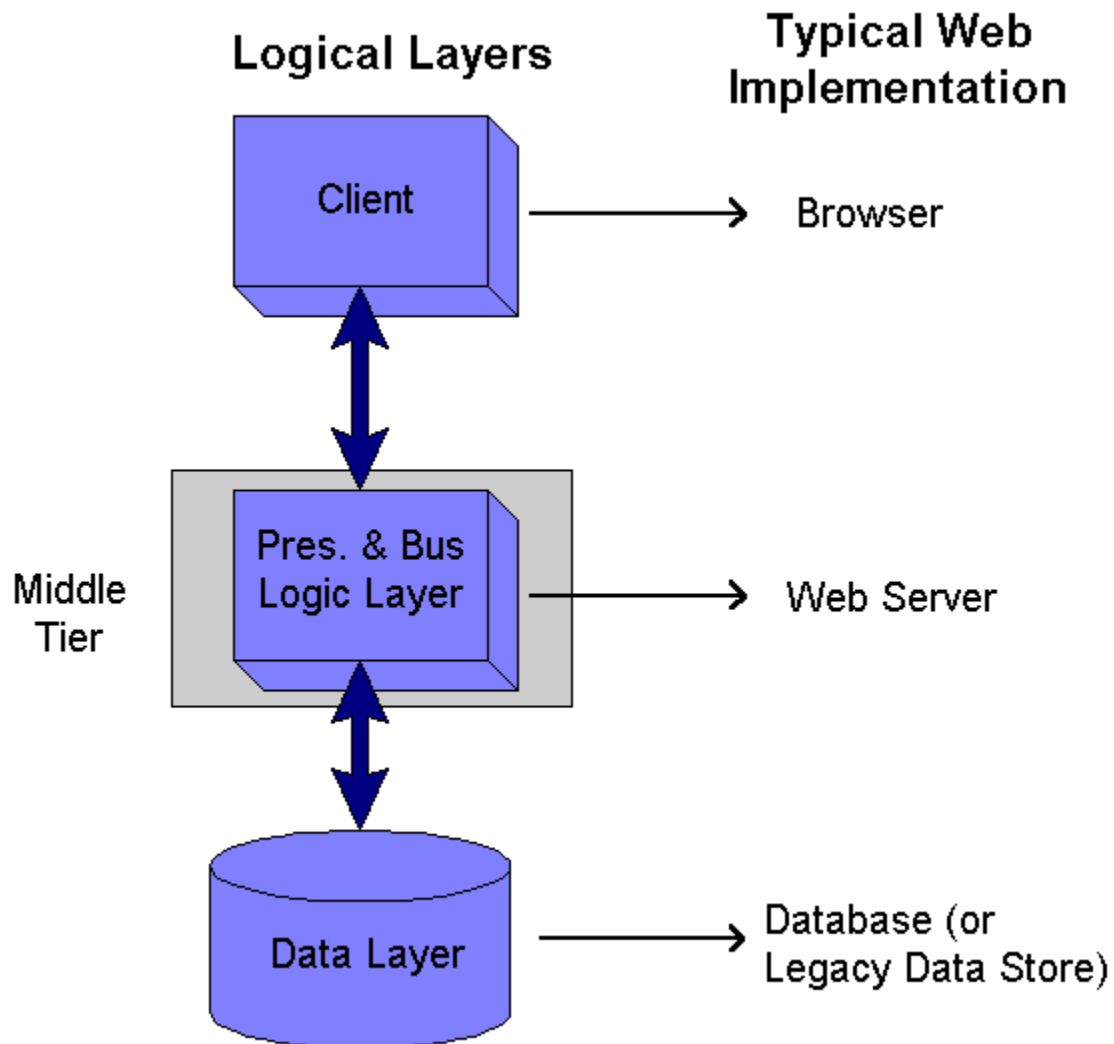


Fig2: A three tier architecture is used for developing this web application.

UML ACTIVITY: BUSINESS PROCESS/WORKFLOW ANALYSIS:

Fig3: USER UML ACTIVITY:

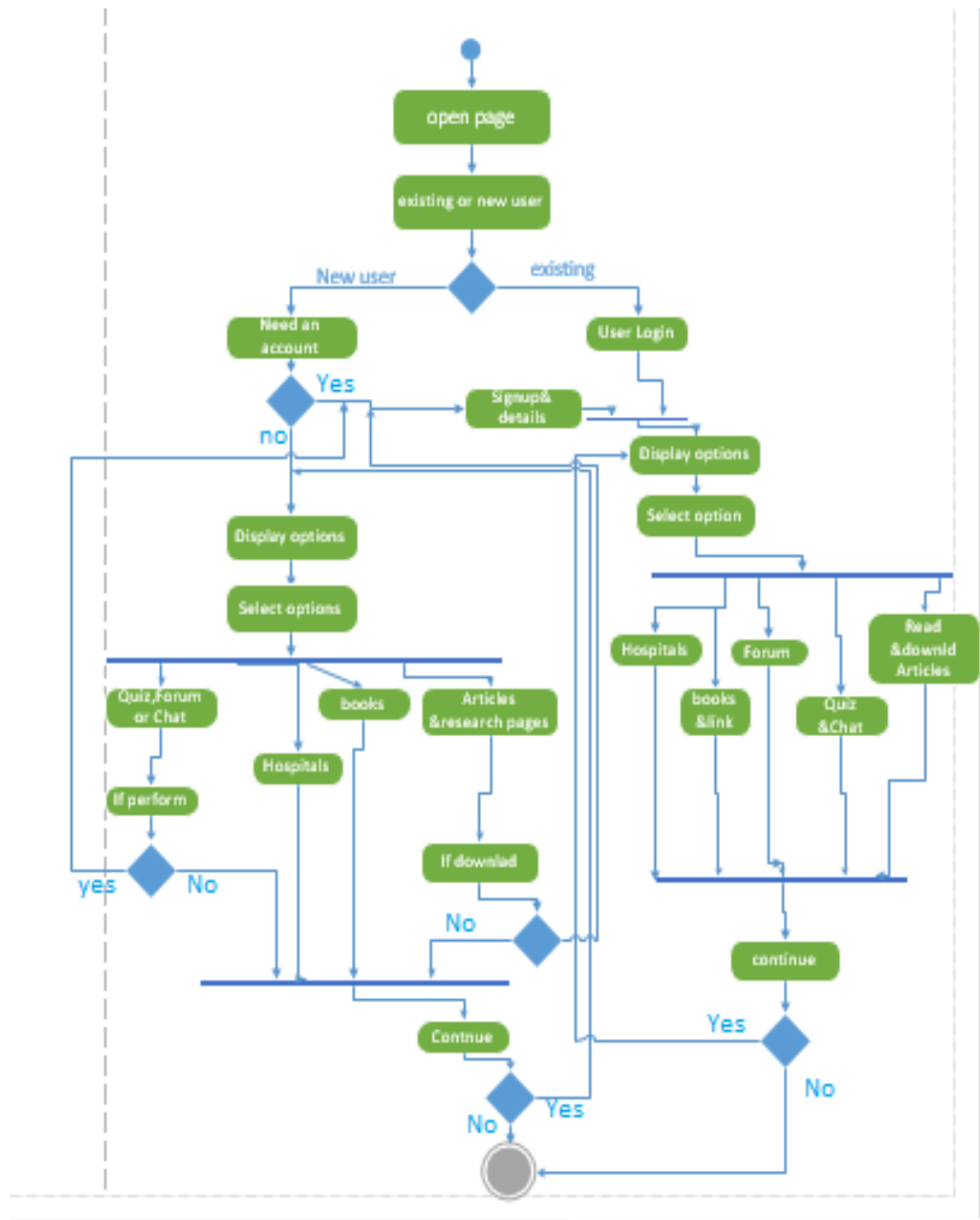
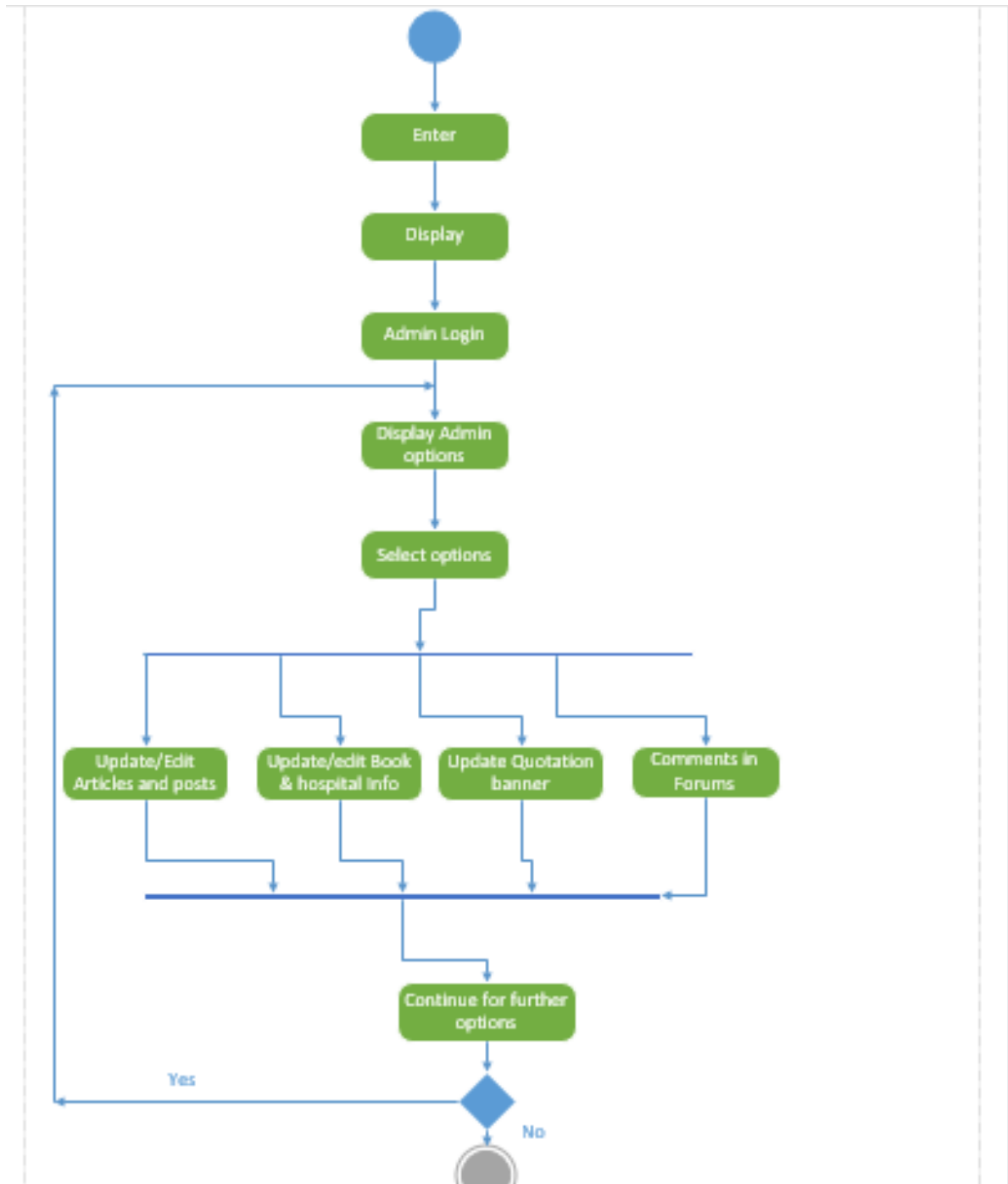


Fig4: ADMIN ACTIVITY UML:



TECHNOLOGICAL AND ARCHITECTURAL REQUIREMENTS:

User Interface (Web Framework):

- HTML
- CSS
- JavaScript

Back End:

- C#.NET

IDE:

- Microsoft Visual Studio 2012(C#)

DATABASES:

- Microsoft SQL Services

UML /Architecture Diagrams:

- Microsoft Visio 2013

PLANNING:

- Scrumdo

VERSION CONTROL:

- GitHub

EXISTING SERVICES:

Name: Geo Location

Description: The Google Maps Geo location API returns a location and accuracy radius based on information about cell towers and Wi-Fi nodes that the mobile client can detect. This document describes the protocol used to send this data to the server and to return a response to the client.

Communication is done over HTTPS using POST. Both request and response are formatted as JSON, and the content type of both is application/json.

We use this API to include location services for the user so that he can get the address of Psychology centers and Hospitals.

URL: <https://developers.google.com/maps/documentation/business/geolocation/>

Name: Direction Service

Description: The Google Directions API is a service that calculates directions between locations using an HTTP request. You can search for directions for several modes of transportation, include transit, driving, walking or cycling. Directions may specify origins, destinations and waypoints either as text strings (e.g. "Chicago, IL" or "Darwin, NT, Australia") or as latitude/longitude coordinates. The Directions API can return multi-part directions using a series of waypoints.

We use this API to include direction service to psychology centers and hospitals for the user, so that he would find the direction from his location.

<https://developers.google.com/maps/documentation/directions/>

Name: Twitter API

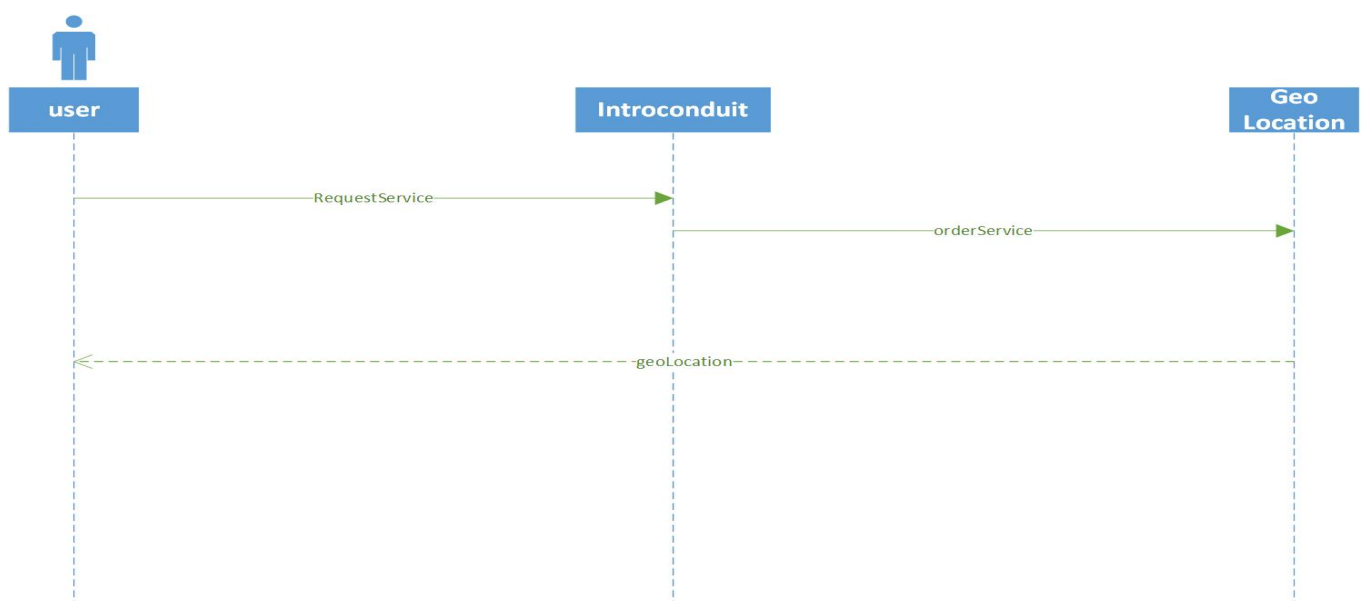
Description: Twitter API enables one to generate forum and keep posting something in the main field and enables other users to comment or give their views below that in text fields.

We use this API to generate forum for the users to post questions and get answers or views, an additional feature will also be integrated in which the administrator will also post his view.

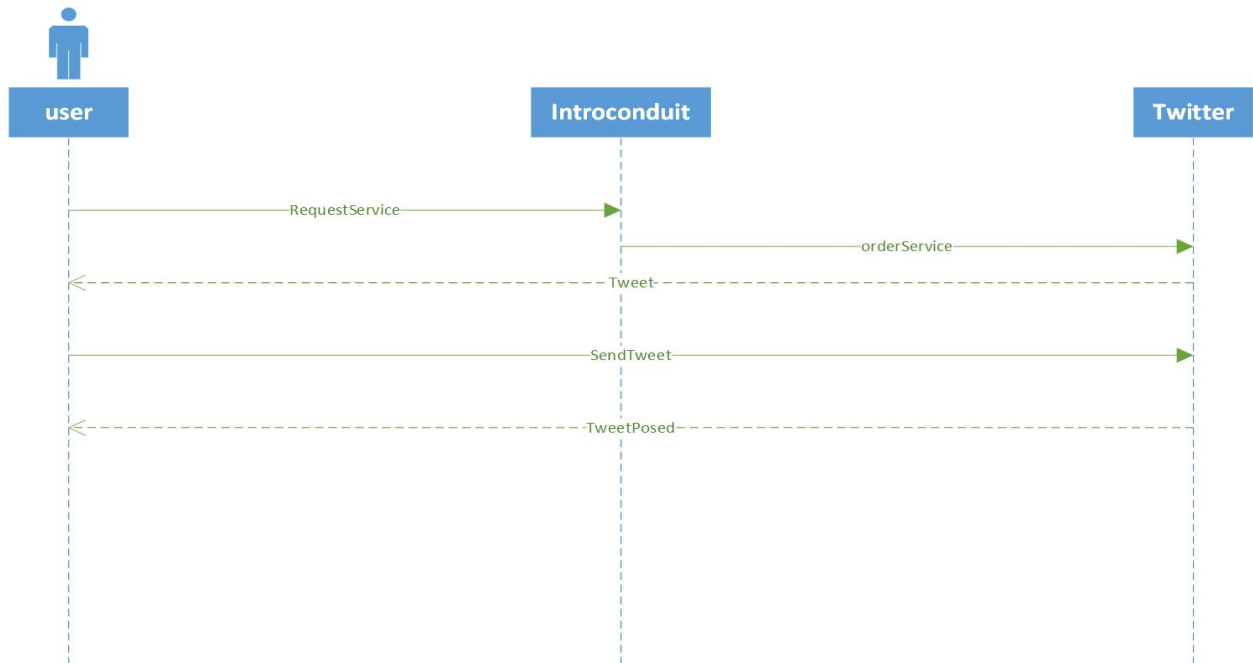
URL: <https://twitter.com/twitterapi>

SEQUENCE DIAGRAMS FOR EXISTING SERVICES:

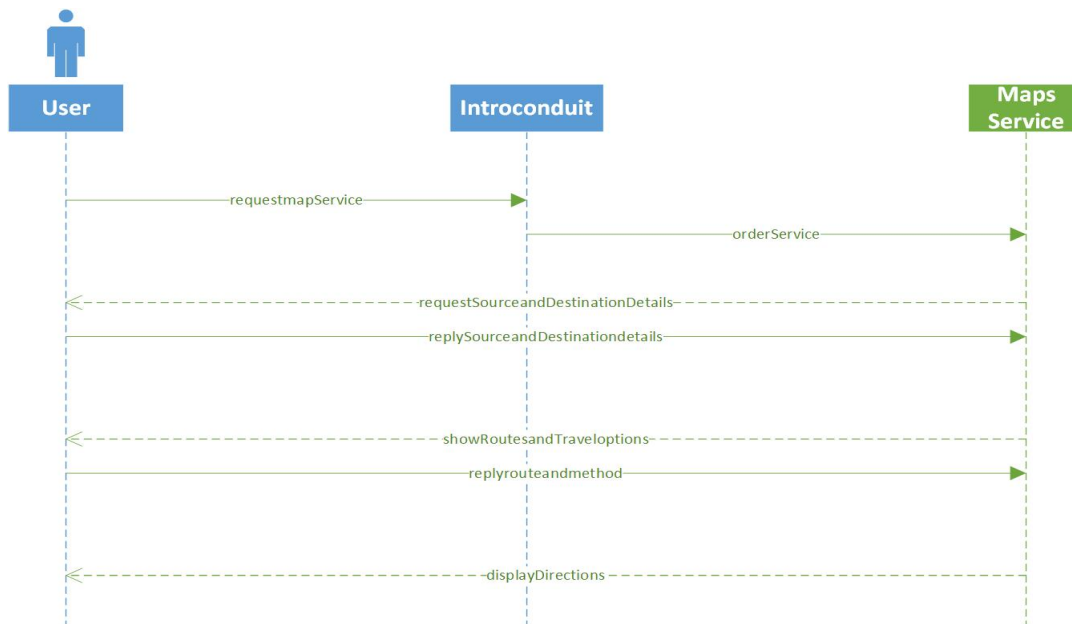
Geo Location:



Twitter API:



Direction Services:



SEQUENCE DIAGRAMS FOR NEW SERVICES:

- **Registration/Sign up/Profile filling:**

Operational Description: The user who would like to register or sign up for this application will fill out a profile form in which he will provide his email id, first name and last name and will choose a password by himself, these are essential fields to fill out to register, upon filling them the administrator will verify and will make sure the user filled details are unique and approved. The user will always be able to edit his profile like changing display name, description etcetera later.

Input/Output: The user fills out registration details and if signup is successful the output would be 'Registered Successfully' or else he would be asked to fill out details uniquely.

Constraints/Exceptions: The user would not be able to register with already existing email, first name or last name, if he/she tries to register, an exception will be raised and it's made sure he is unique in the registration process.

Service Flow: user who wishes to register



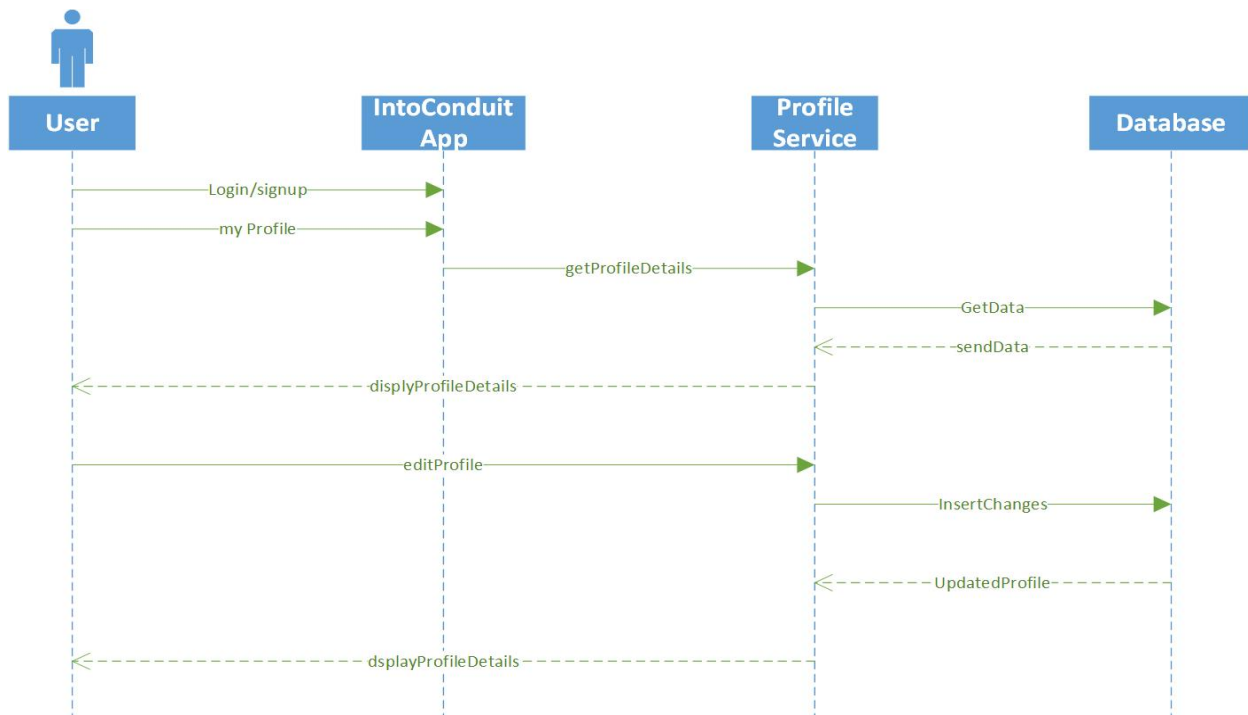
Fills out Email, First Name, Last Name, password



If existing an exception is generated



Or else an account is generated for that user



- **Login:** The registered user will be able to login with his email address and password which he provides during registration, otherwise an exception is created and ask for username and password which are correct.

Operational Description: Input/Output: The user fills out login details and enter into website to access services provided. Input would be his email and password and output would be website's main page

Constraints/Exceptions: The registered user with incorrect details will not be able to login and an exception is raised.

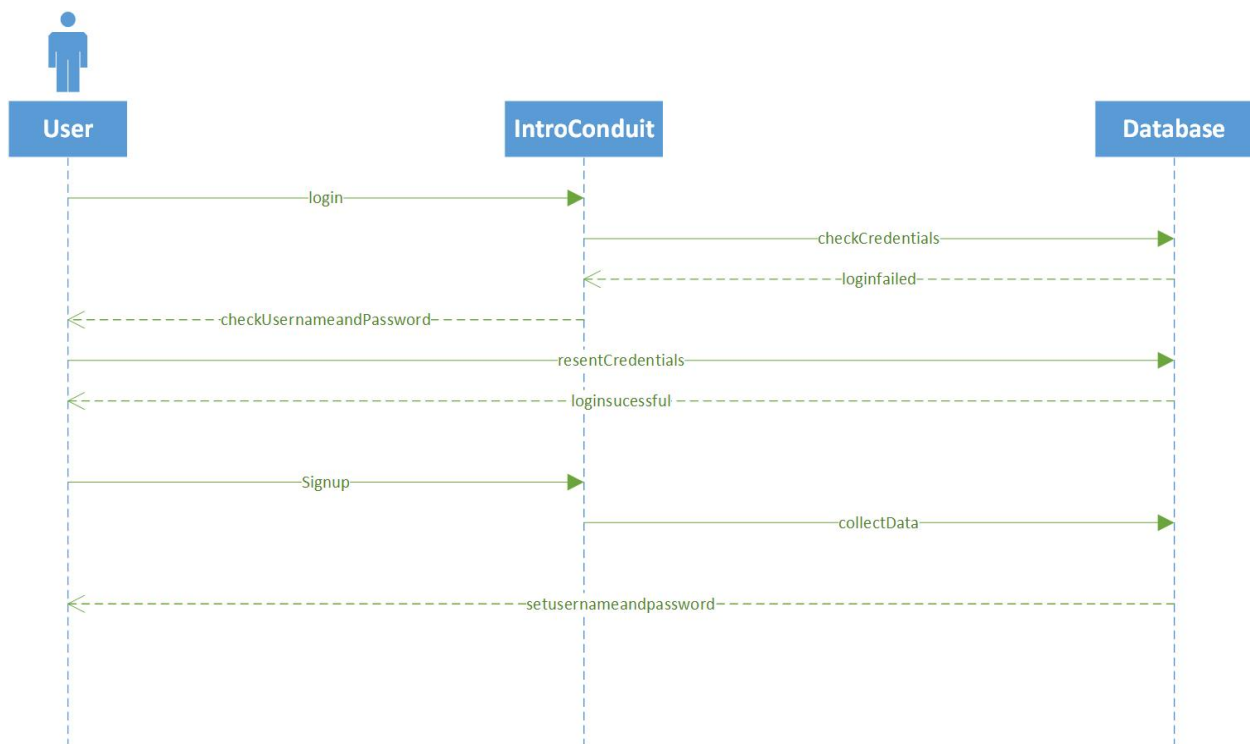
Service Flow: user fills out email id and password



If correct he enters into website or else a popup message



Resources to access



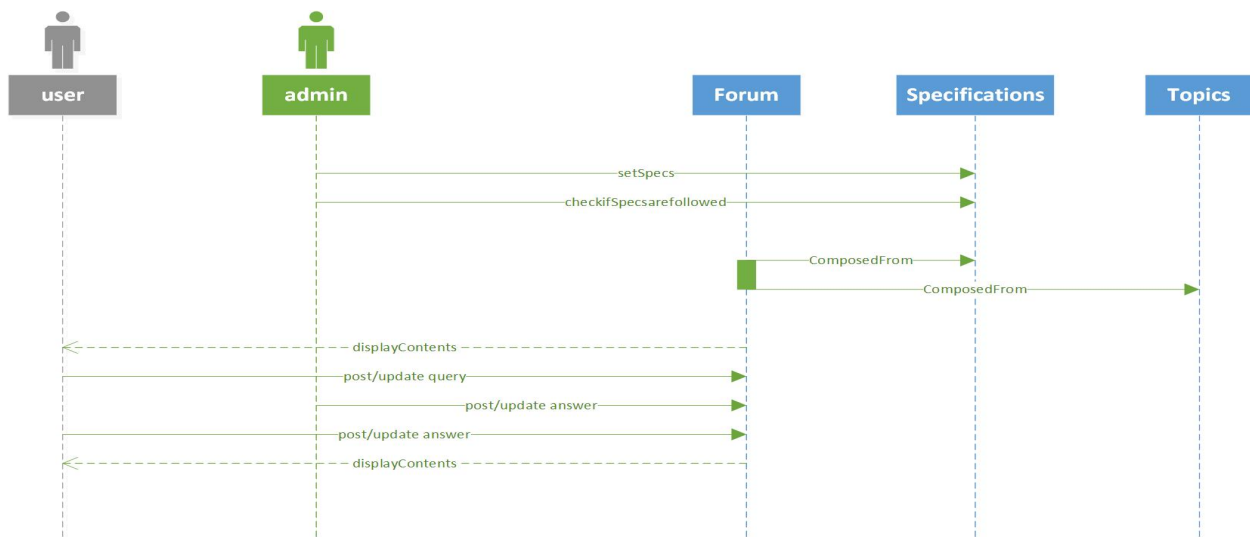
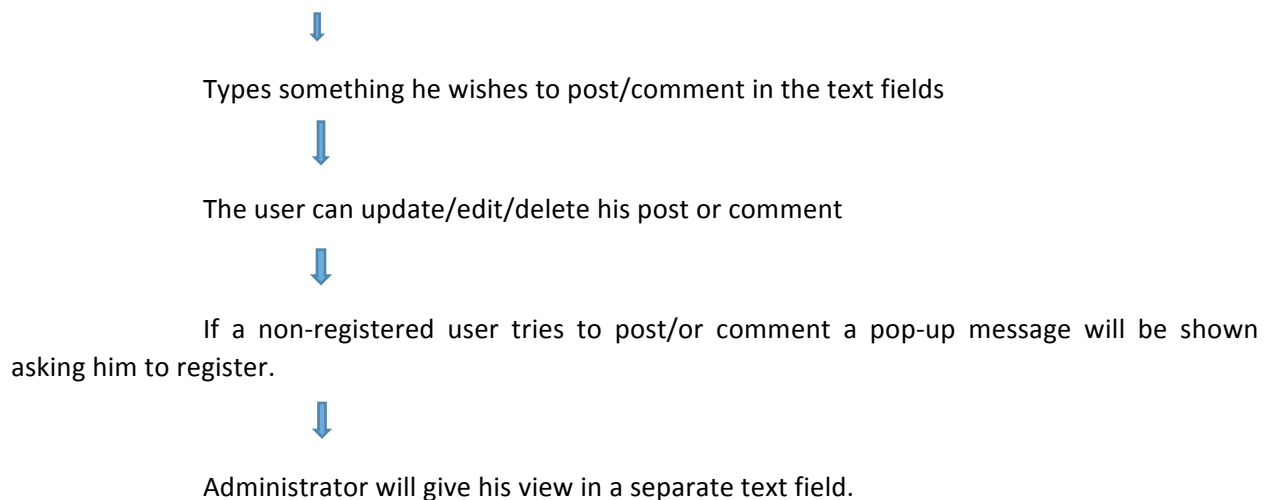
- **Forum**

Operational Description: A registered user would be able to post a question or his opinion in this forum, every registered user can post a question or opinion upon which other users will posts their comments or answers, there will be a separate field for admin where he posts his comments or answer. If a non-registered user tries to post something or tries to comment a pop message will appear asking him to register.

Input/Output: The registered user can post a question or opinion as input, he/she could comment to other posts as input and the administrator's view or his comment can be regarded as output. The registered user will have all the privileges to edit, update, or delete his posts and same can be done with comments or answers with other users.

Constraints/Exceptions: A non-registered user will not be able post or comment anything, if he/she tries to post anything an exception will be raised asking him to register first.

Service Flow: user who wishes to post or comment in the forum



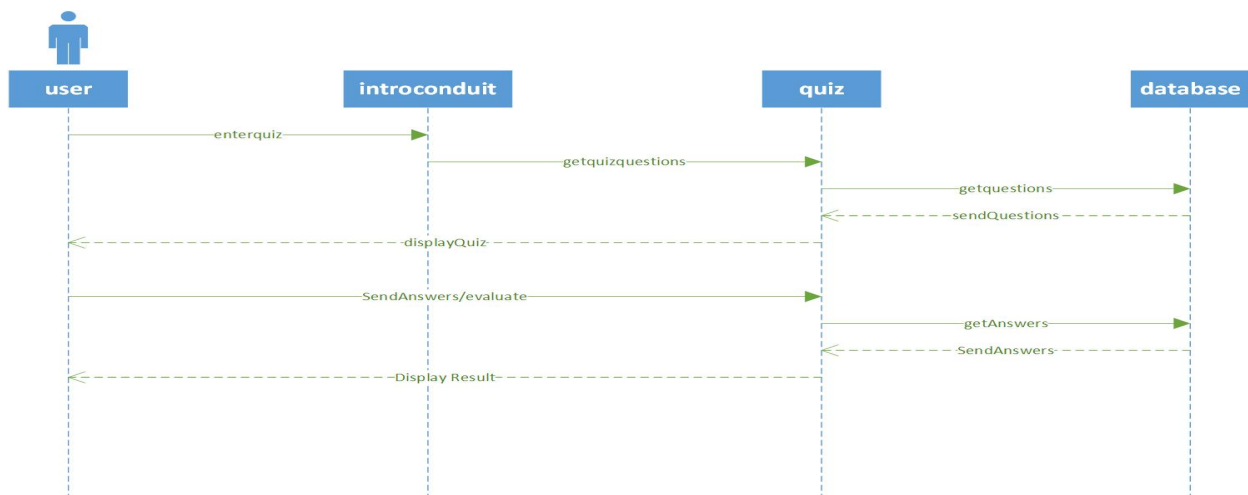
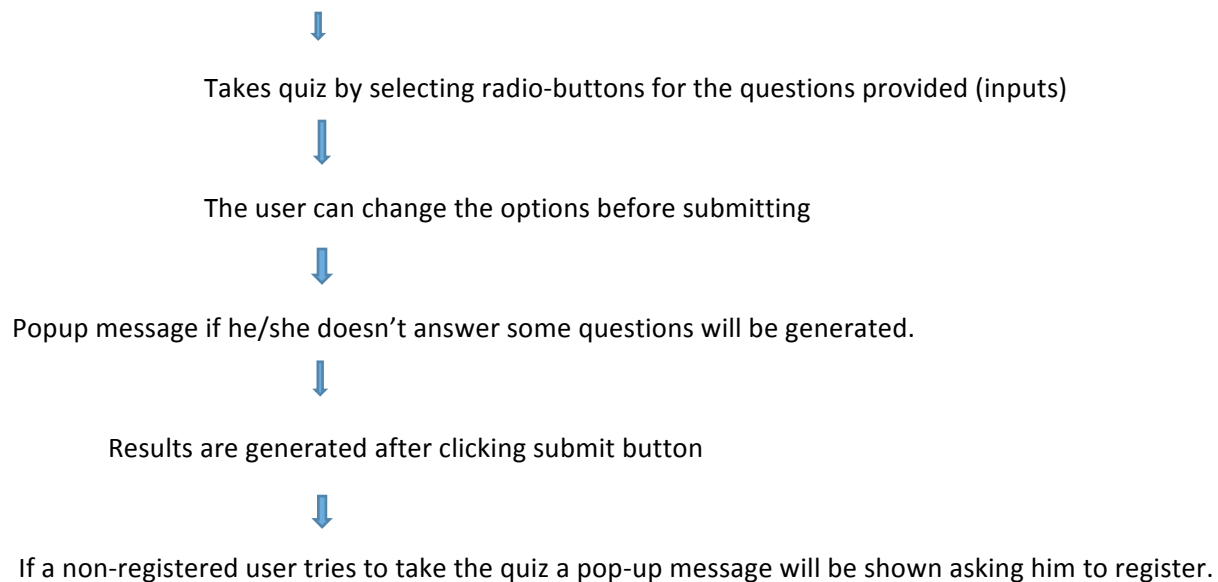
- **Quiz**

Operational Description: A registered user will be able to take a quiz to evaluate his/her personality and an evaluated results are generated after submitting and if a non-register user tries to take the quiz he wouldn't be given access and a popup message will be appeared asking him to register. The administrator will be always able to edit results that must be produced, he will be able to add or delete questions in the quiz.

Input/Output: The radio-buttons when clicked with mouse will be considered as input and the results generated after taking quiz as output. A popup message if he/she doesn't answer some questions will be generated.

Constraints/Exceptions: A non-registered user will not be able to take quiz, if he/she tries to take quiz an exception will be raised asking him to register first.

Service Flow: user who wishes to takes the quiz

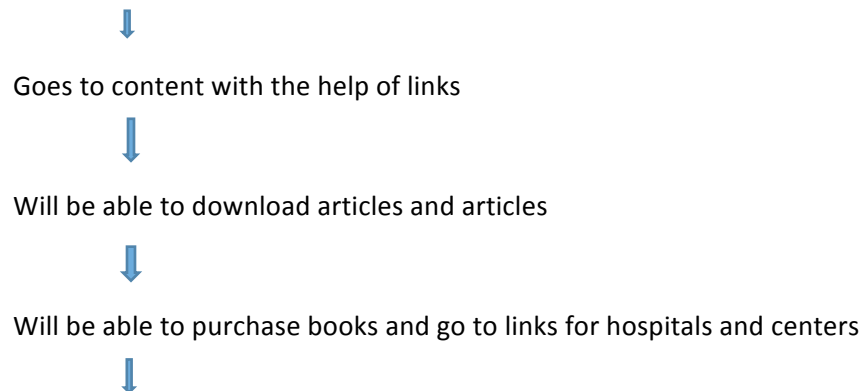


- **Other Resources:**

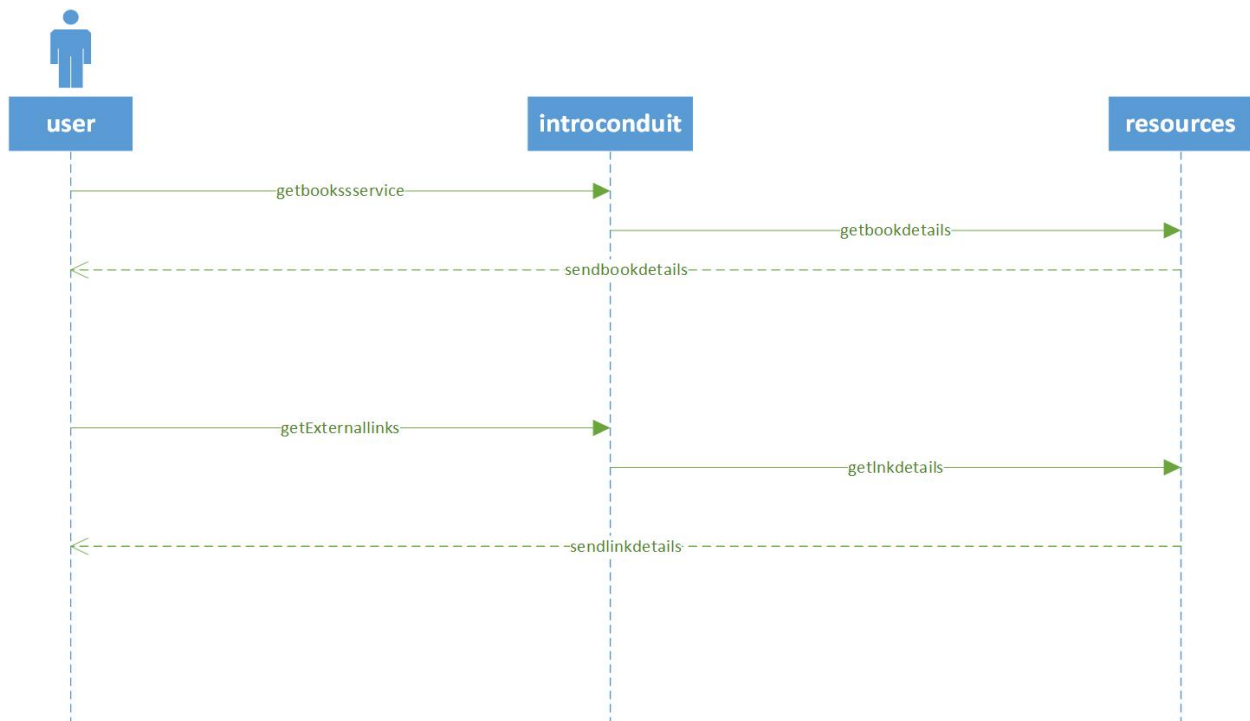
Operational Description: A registered user or a non-registered user will be able look into articles and posts written and can also have access to links to purchase books and hospitals and psychology centers. But only a registered user will be able to download the content available and if a non-registered user tries to download a pop up message appears asking him to register.

Constraints/Exceptions: A non-registered user will not be able to download content like pages and articles, if he/she tries to download an exception will be raised asking him to register first.

Service Flow: user who wishes to use other resources like using links to books, hospitals, and to download available content.

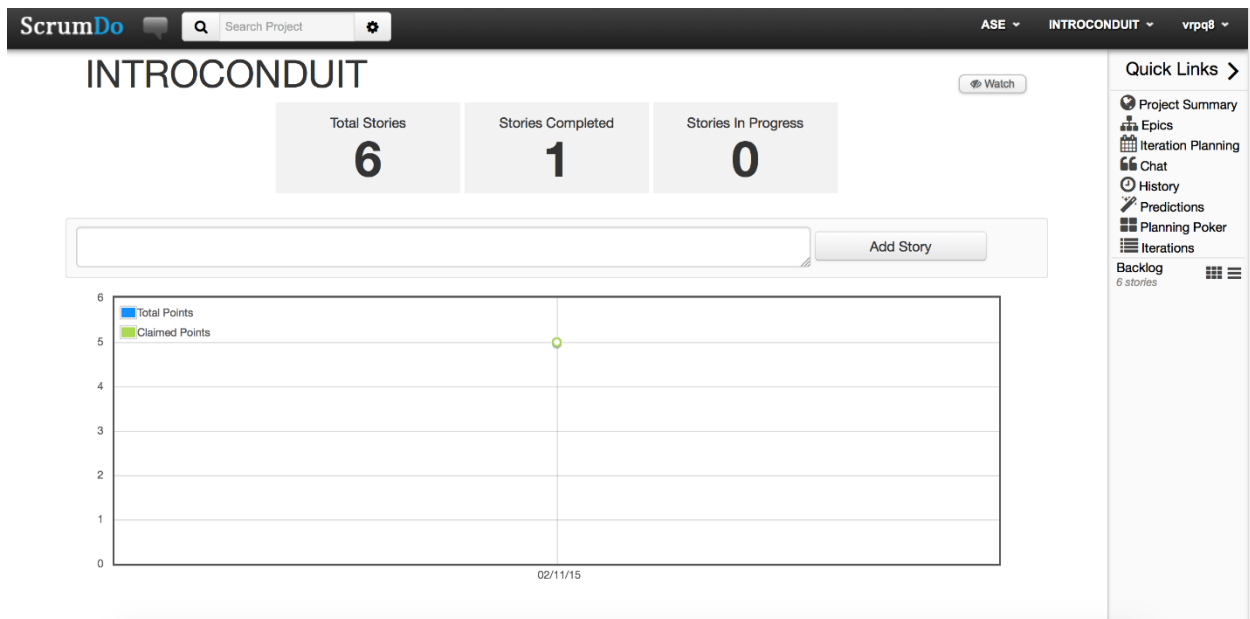
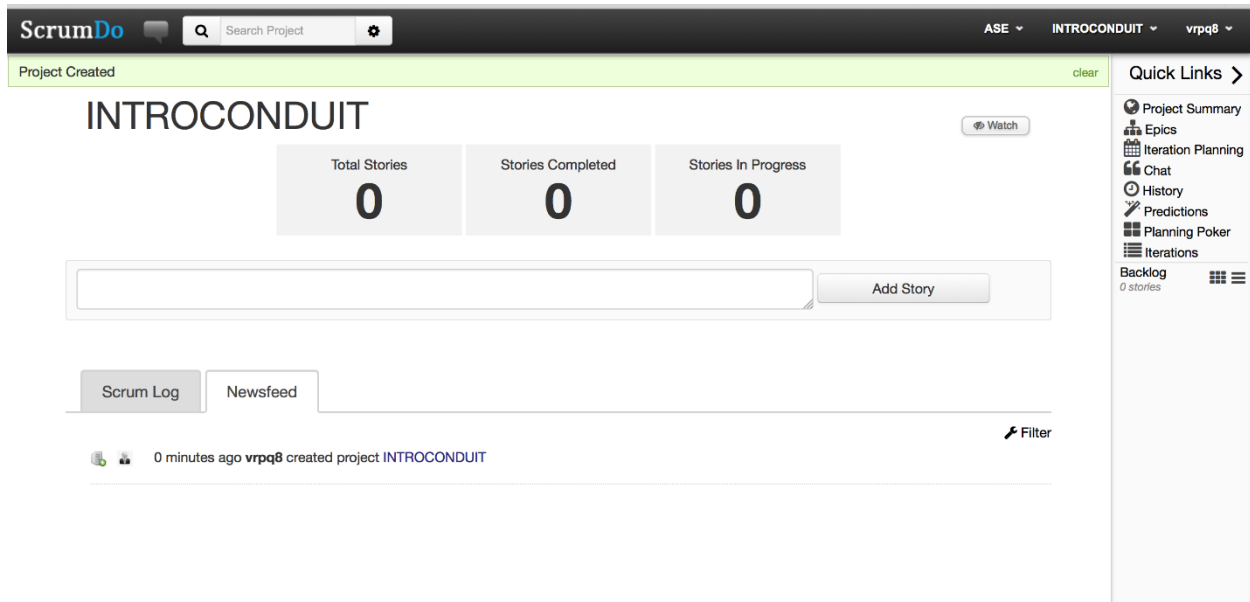


If a non-registered user tries to take the quiz a pop-up message will be shown asking him to register.



PLAN BY SERVICES:

ScrumDo screen shots of Introconduit.



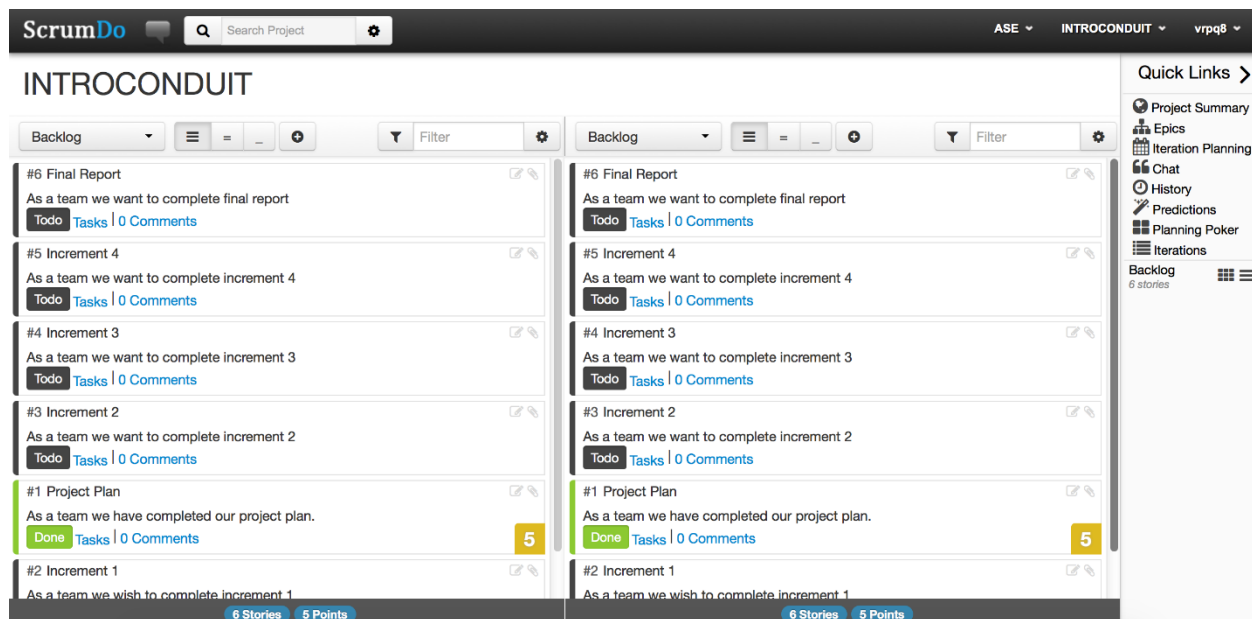
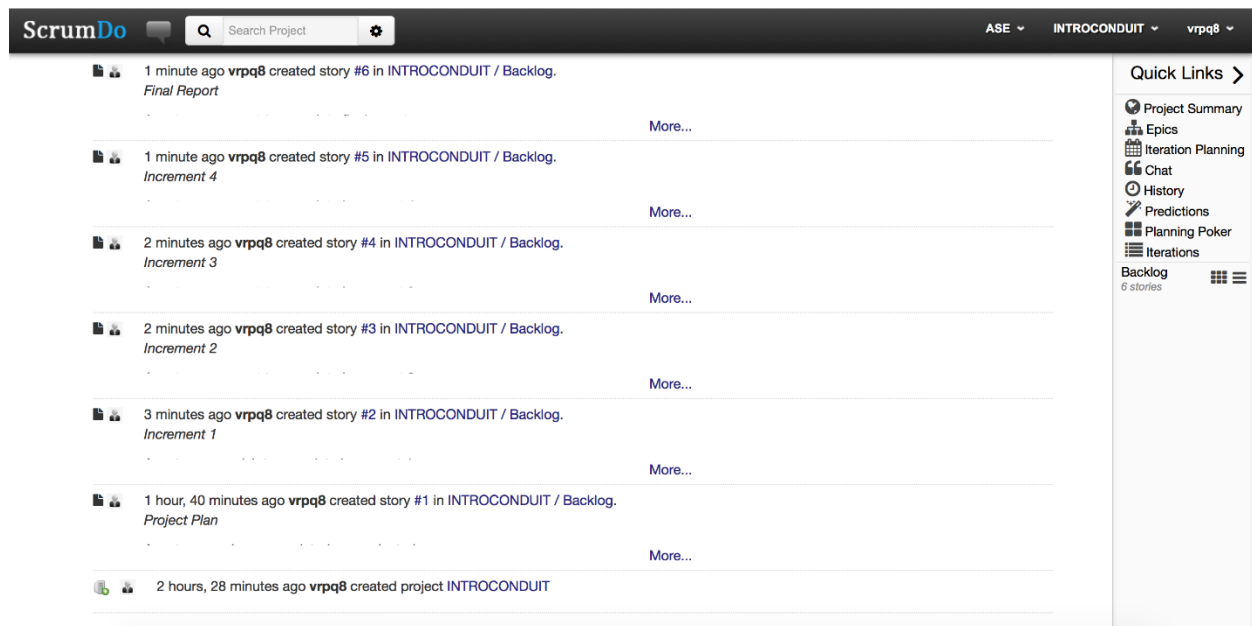
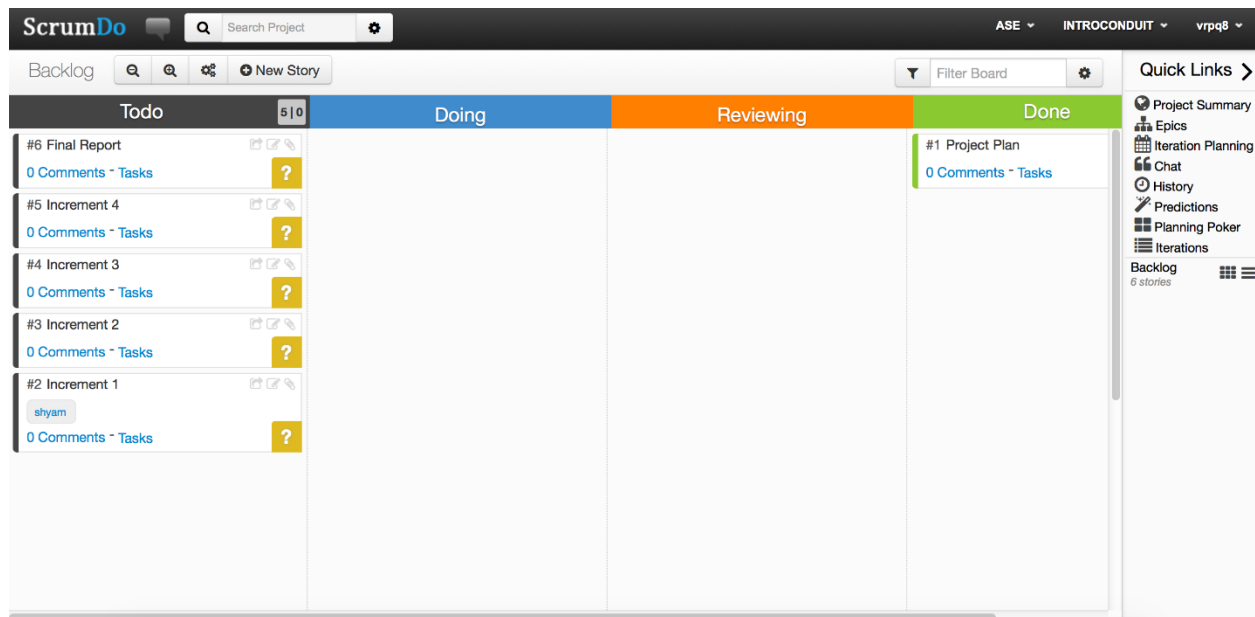


Fig6,7:Project Summary

Fig8:Tasks to do and that are done.



BIBILIOGRAPHY:

- <https://developers.google.com/maps/documentation/business/geolocation/>
- <https://developers.google.com/maps/documentation/directions/>
- <http://introvertspring.com/>
- <http://www.thepowerofintroverts.com/>