

Online Education Employment (Android) Project

Design Specifications

Version: 1.0

Date: 20 Aug. 2015

Document Modification History/Revision log

| Version | Date | Author | Description of Change |
|---------|------------|----------|-----------------------|
| 1.0 | 20/08/2015 | VEL team | Initial version |
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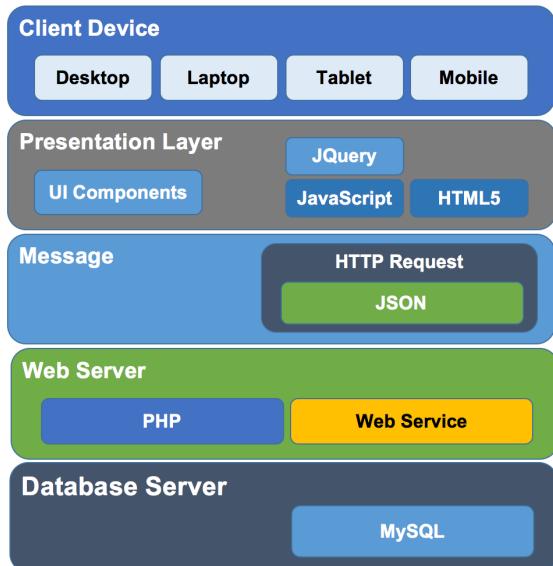
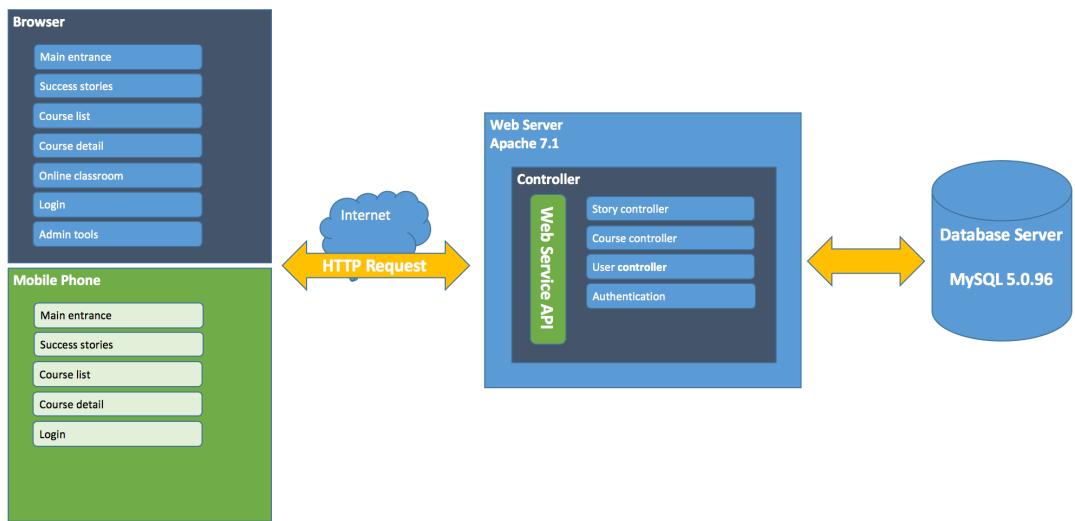
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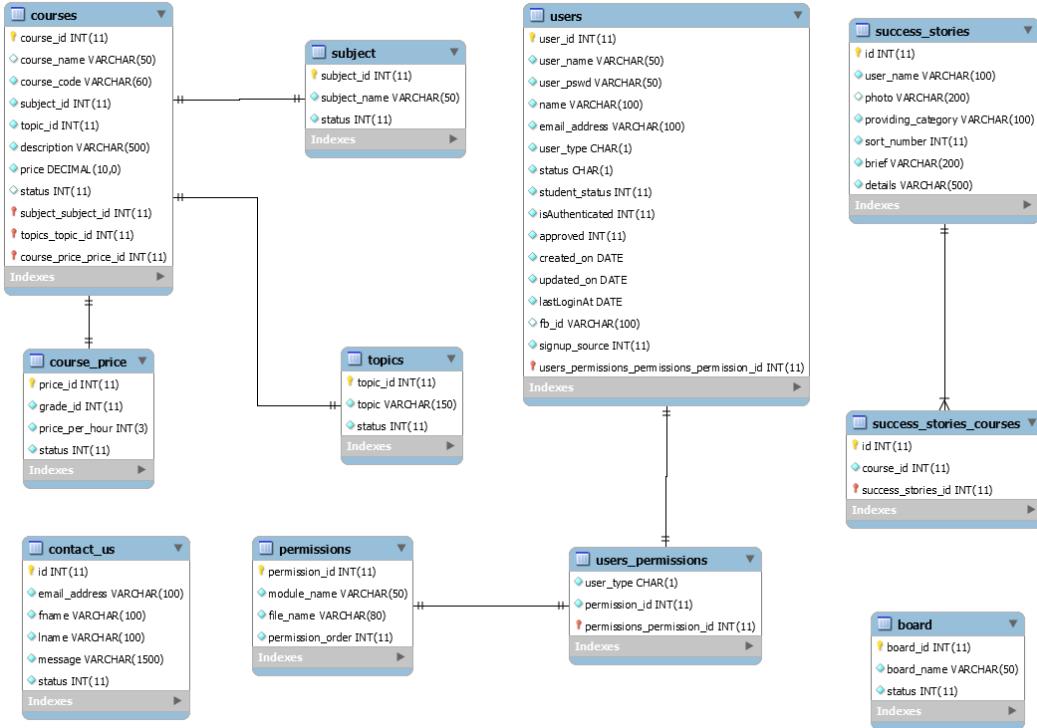
1. Software Architecture and Design

1.1. Architecture Diagram

This website uses a 3-tier architecture, where presentation layer, business logic layer and database layer can be easily developed and maintained separately. Communication and data exchange between server and browser will be implemented using web service APIs, which allows high level decoupling and produce flexibility without introducing complexity into the system.



1.2. Class Diagram



2. Design Decisions

Mobile-friendly

Currently, the GetSkills.co.nz website is un-mobile-friendly. Starting April 21, 2015, Google Search will be expanding its use of mobile-friendliness as a ranking signal. (as cited from <https://support.google.com/adsense/answer/6196932?hl>) Since Google's polity will affect the ranking of the mobile searches results in all languages worldwide, following customer requirements, the new website need to be highly mobile friendly.

We've tested the current GetSkills.co.nz website through "Google mobile-friendly test tool", results shows below:

- 1) Links too close together
- 2) Text too small to read
- 3) Mobile viewport not set
- 4) Content wider than screen

We expect the refined website can pass all criteria in

Google's Mobile-friendly test tool.

Security

Getskills.co.nz website is an online education/employing training website. It contains confidential business information from both their business partners and individual trainees. In this way, the website needs to be strictly security and private.

Maintainability

Getskills.co.nz website contains four modules – students, employer company, teachers and administrator. Their website should be able to renew information from different parties, such as new classes, new positions, and new promotions. The website should be maintainable. We decide the maintainable attributes in refined Getskills.co.nz websites will keep pace with the exist website.

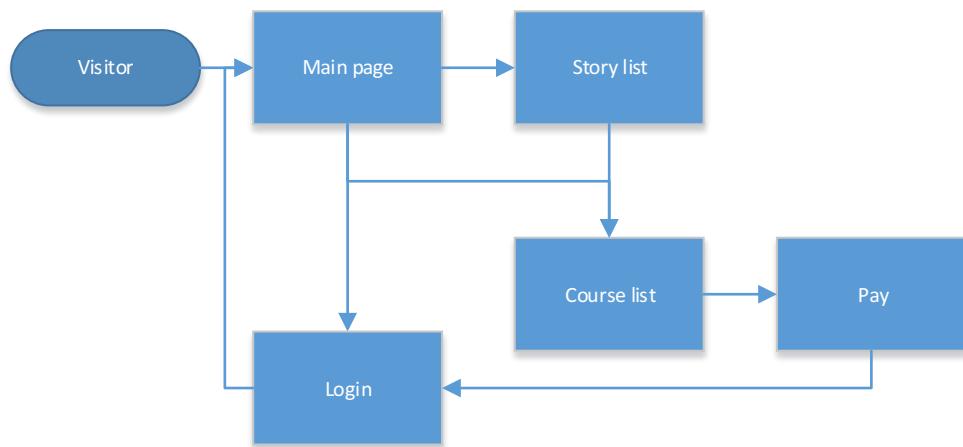
Aesthetic property

The CEO is not satisfied with page layout designs of the current website. He has a higher expectation on the website layout designs. He want it to be more attractive. He emphasizes that, “industry need artists and designers to help connect our business with end customers and establish a trust in the brand.” Our team decide to re-beautify the current web pages. We will try to improve the current website page designs to make it more appealing. Relevant techniques involve: CSS, JavaScript.

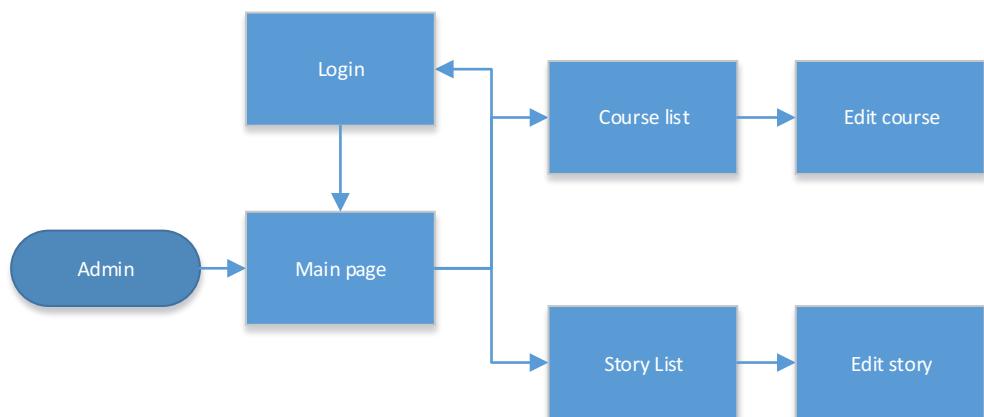
3. Low Fi Prototypes

3.1. Web Page Workflow

Visitor page workflow

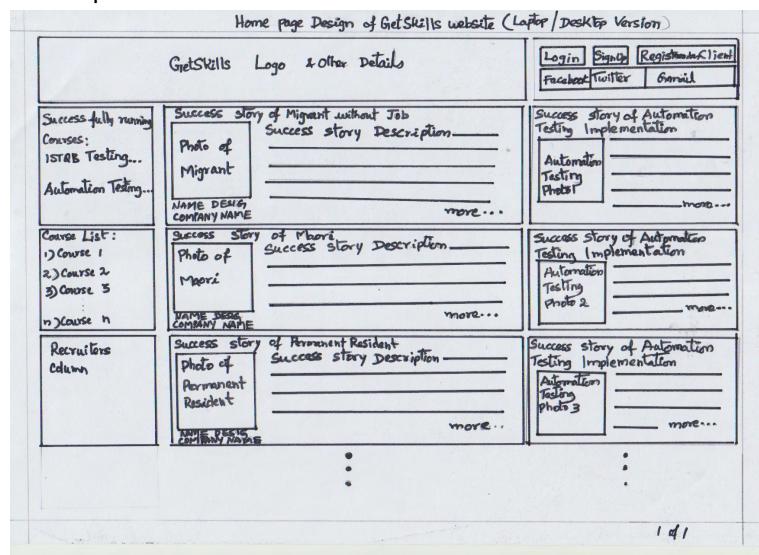


Administrator page workflow

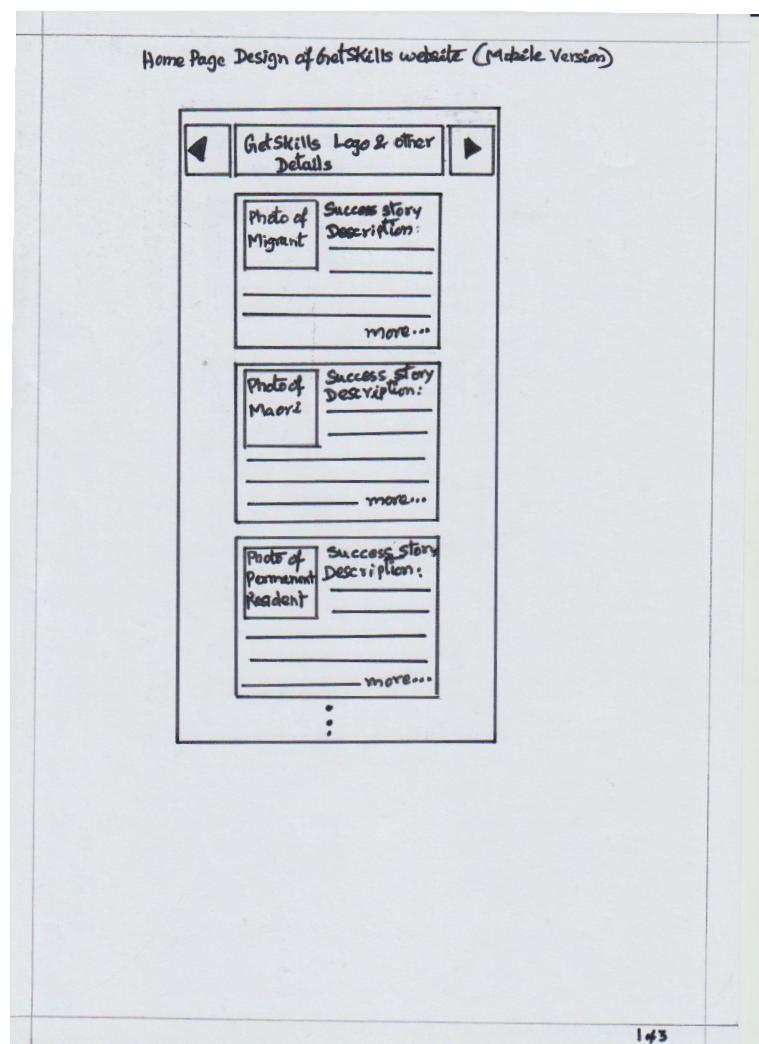


3.2. Main Page

Desktop version



Mobile version



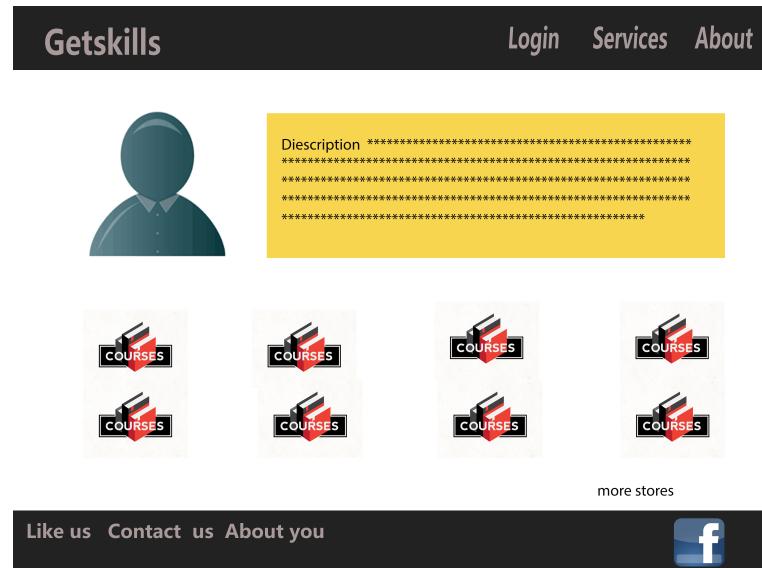
3.3. Successful Stories Module

List view desktop version



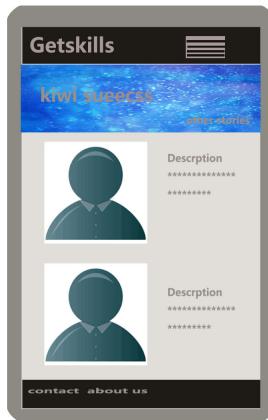
The screenshot shows a horizontal list of eight user profiles. Each profile consists of a dark blue circular icon with a white silhouette of a person's head and shoulders, followed by the word "description". Above the list, a navigation bar includes links for "Login", "Services", "About", and "Getskills". Below the list is a large blue banner with the text "Kiwi Success Stories" in white. At the bottom of the page is a footer bar with social media links for Facebook, "Like us", "Contact us", and "About you".

Detail view desktop version

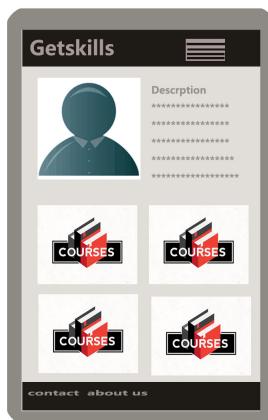


The screenshot shows a detailed view of one user profile from the list. On the left is a larger, centered profile icon. To its right is a yellow box containing the word "Description" followed by several lines of asterisks. Below this are two rows of four smaller "COURSES" icons each. At the bottom is a footer bar with social media links for Facebook, "Like us", "Contact us", and "About you".

List view mobile version



Detail view mobile version



3.4. Administration Tool

(Admin) Courses

Header : Dashboard (Common)

<1> Sort with manual order <2> New column, new data

| Courses | | | | | | |
|---------|--------|--------------|------------------|-------------|-------|----------------------------------|
| Course | Code | Subject | Topic | Description | Price | Category |
| ISTQ8 | IST001 | Module1: xxx | Software Testing | xxx xxx | 250 | Company, Student, Migrant, Kiwi, |
| ISTQ8 | IST001 | Module1: xxx | Software Testing | xxx xxx | 250 | Company, Student, Migrant, Kiwi, |
| ISTQ8 | IST001 | Module1: xxx | Software Testing | xxx xxx | 250 | Company, Student, Migrant, Kiwi, |
| ISTQ8 | IST001 | Module1: xxx | Software Testing | xxx xxx | 250 | Company, Student, Migrant, Kiwi, |
| ISTQ8 | IST001 | Module1: xxx | Software Testing | xxx xxx | 250 | Company, Student, Migrant, Kiwi, |

Add

Action

Edit Delete Class

Footer : Contact Info. (Common)

(Admin) Add Course

Header : Dashboard (Common)

| | |
|---------------------------------------|--|
| Quick Links | Add Course |
| | Course Name: <input type="text"/> Course Code: <input type="text"/> Subject: Please select Topic: Please select User Category: <input type="checkbox"/> Company <input type="checkbox"/> Student <input type="checkbox"/> Migrant <input type="checkbox"/> Kiwi <input type="checkbox"/> Career Changer Description: <input type="text"/> Course Price: <input type="text"/> Sort Order: <input type="text"/> |
| XXX Links | <=> New data / new DB item <> New data / new DB item |
| <input type="button" value="Submit"/> | |

Footer : Contact Info. (Common)

(Admin) Edit Course

Header : Dashboard (Common)

| | |
|---------------------------------------|--|
| Quick Links | Edit Course |
| | Course Name: Software Testing Course Code: IST001 Subject: Please select Topic: Please select User Category: <input type="checkbox"/> Company <input type="checkbox"/> Student <input type="checkbox"/> Migrant <input type="checkbox"/> Kiwi <input type="checkbox"/> Career Changer Description: xxxx Course Price: 250 Sort Order: 8 |
| XXX Links | <=> New data / new DB item <> New data / new DB item |
| <input type="button" value="Submit"/> | |

Footer : Contact Info. (Common)

(Admin) Success Stories

Header : Dashboard (Common)

| Success Stories | | | | | <=> New page |
|-----------------|-----------------------|------------------------|---------------------------------|--|---|
| User | Brief Story | Detail Story | Category | Courses | Action |
| Tom | Brief story... ... | Detail story... ... | Company, Student, Migrant, Kiwi | IST001 XXX IST002 YYY IST004 ZZZ | <input type="button" value="Edit"/> <input type="button" value="Delete"/> |
| Jery | Brief story... ... | Detail story... ... | Company, Student, Migrant, Kiwi | IST001 XXX IST002 YYY IST004 ZZZ | <input type="button" value="Edit"/> <input type="button" value="Delete"/> |
| Mike | Brief story... ... | Detail story... ... | Company, Student, Migrant, Kiwi | IST001 XXX IST002 YYY IST004 ZZZ | <input type="button" value="Edit"/> <input type="button" value="Delete"/> |
| Joe | Brief story... ... | Detail story... ... | Company, Student, Migrant, Kiwi | IST001 XXX IST002 YYY IST004 ZZZ | <input type="button" value="Edit"/> <input type="button" value="Delete"/> |

Footer : Contact Info. (Common)

(Admin) Add Success Story

Header : Dashboard (Common)

New page

Quick Links

XXX Links

Add Success Story

Name:

Picture:

Target Category: Company Student Migrant
 Kiwi Career Changer

Sort Order:

Brief Story:

Detail Story:

Courses

| Course ID | Description | Action |
|-----------|----------------------|---------------------------------------|
| IST001 | Software Testing xxx | <input type="button" value="Add"/> |
| IST002 | Software Testing xxx | <input type="button" value="Delete"/> |
| IST003 | Software Testing xxx | <input type="button" value="Delete"/> |

Footer : Contact Info. (Common)

(Admin) Edit Success Story

Header : Dashboard (Common)

New page

Quick Links

XXX Links

Edit Success Story

Name:

Picture:

Target Category: Company Student Migrant
 Kiwi Career Changer

Sort Order:

Brief Story:

Detail Story:

Courses

| Course ID | Description | Action |
|-----------|----------------------|---------------------------------------|
| IST001 | Software Testing xxx | <input type="button" value="Add"/> |
| IST002 | Software Testing xxx | <input type="button" value="Delete"/> |
| IST003 | Software Testing xxx | <input type="button" value="Delete"/> |

Footer : Contact Info. (Common)