MONASH University

FIT5032 Design Report (Distinction Code Task)

News Site

Sung-Che Lee:28872401

Contents   **Page**

1. **Overview**

This is a *Monash News* website constructed by ASP.NET MVC C# application. This site contains a master page and several pages including home, news, administration, documentation as well as register and login. The master page has a navigation bar for the whole website. The home page contains an image, some descriptions and a link to browse news. The news page provides all news for all visitors. The administration page is an authorized administration interface consisting of article, journalist and member management subpages. CRUD and search functions are provided for all these management pages. The documentation page shows the author and image details.

Besides, this application allow visitors to apply for memberships by registration. Log in page is provided for members with different roles. If users don't log in, they can only browse news and see documents .If users log in as a normal member, they can manage their accounts, upload and see images, see all members and search members. If the user is an administrator, they can do more managements such as articles, journalists and members.

2. **Functional diagram**

The diagram is divided into two parts. First diagram is regarding visitor and second one is related to administrator.
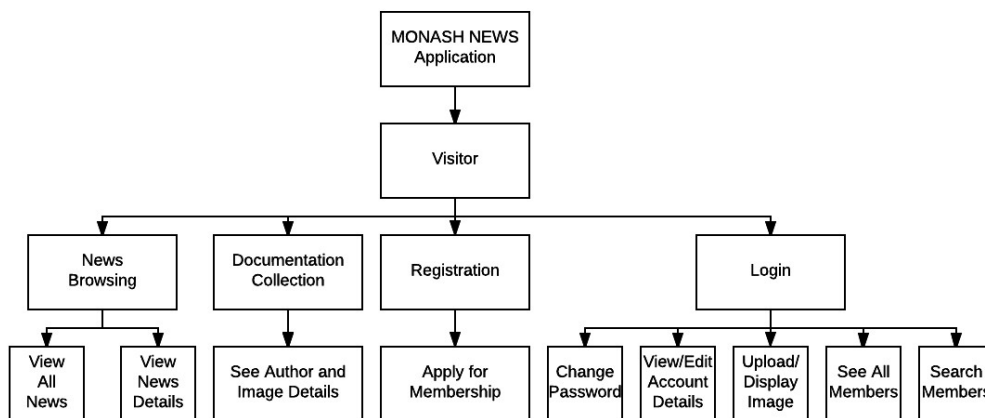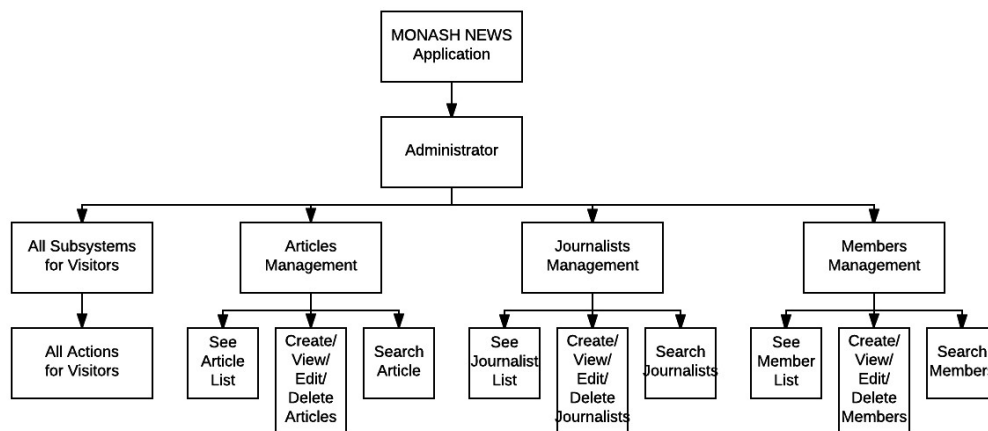

Fig.2-1 Visitor

Fig.2-1 Administrator

3. **Core program functionality**

A bootstrap template from Start Bootstrap is adopted in this application.

MASTER page

● It provides a navigation bar including HOME, NEWS, ADMINISTRATION, DOCUMENTATION, as well as REGISTER and LOG IN for the whole website.

Fig.3-1 Navigation bar

HOME

● It contains an image, some descriptions and a link to browse news. It is the entrance of MONASH NEWS.

Fig.3-2 HOME page

NEWS

- It provides a list of news with a part of contents for the public, as shown in Fig. 3-3.
- Users can see all the information of each news by clicking the news title from the list, as shown in Fig. 3-4.

Apple Introduces Major Upgrades to Trademark iPhone

Among its many features, the new iPhone can shoot better photographs in low light and can be charged ....

By Patrick Galloway
18/09/2017
Category: Economy & Business

Celebrity Baby Announcements Make News

Two recent baby announcements involve famous names. September 1st was a big day for the Williams fa ....

By Lexy Hamilton-Smith
16/09/2017
Category: World

Fig.3-3 NEWS page

Apple Introduces Major Upgrades to Trademark iPhone

By Patrick Galloway
18/09/2017
Category: Economy & Business

Among its many features, the new iPhone can shoot better photographs in low light and can be charged wirelessly. Perhaps its most unique new feature: the new phone can be unlocked by facial recognition. But the big question is, will consumers hand over $1,000 for a fancy, feature-laden telephone? "Just because you're unhappy with your phone, just because it seems to not be working, doesn't necessarily mean that you absolutely need that shiny new thing," Mark Hamrick, a senior analyst with Bankrate.com, tells VOA. But Hamrick says he believes Apple did a very good job with innovation along with the hardware and software that went into the iPhone X. He says there will always be a market for it, despite the high price tag. "I think, truly, that there are some people out there who will skip meals to have these devices. We can debate whether that's wise or not," Hamrick said. Apple has sold more than 1.2 billion iPhones since it released its first one in 2007. The company is looking to the iPhone X to revive its sagging market share as other companies grab a piece of the multibillion-dollar industry. Also Tuesday, Apple introduced major upgrades to its TV streaming device and to the Apple Watch, including an ability to detect an elevated heart rate when the user is inactive.

Fig.3-4 News details

ADMINISTRATION (For Administrator only)

- It is an administration interface for managing articles, journalists and members. Fig. 3-5, Fig. 3-6 and Fig. 3-7 show the articles, journalists and members index pages, respectively. Articles index page provides a date sorted initial view while journalists and members index page provides a name sorted one.
- CRUD and search functions are provided in this interface, as shown in Fig. 3-5, Fig. 3-6 and Fig. 3-7. User can search through different columns or a combination of all.
- When users click each CRUD function button, it will be directed to another pages. For example, Fig. 3-8 and Fig. 3-9 illustrate Create and Edit Journalists pages, and View and Delete Journalists pages, respectively.

Index

Create New

Show 10 ▾ entries　　　　　　　　　　　　　　　　　　Search: [＿＿＿＿]

Title ↑↓	Content ↑↓	Date ↑↓	Category ↑↓	Name ↑↓	↑↓
Facebook Opens Training Center in Brazil	The social media service Facebook plans to open a training center in Brazil for computer coders and	17/10/2017	Science & Technology	Patrick Galloway	Edit | Details | Delete
Apple Introduces Major Upgrades to Trademark iPhone	Apple released the latest in smartphone technology Tuesday — the $1,000 iPhone X (the X stands for t	11/10/2017	Economy & Business	Patrick Galloway	Edit | Details | Delete
Search Title	Search Content	Search Da	Search Cat	Search N	Search

Showing 1 to 2 of 2 entries　　　　　　　　　　　　　　Previous [1] Next

Fig.3-5 Articles index page

Index

Create New

Show 10 ▾ entries　　　　　　　　　　　　　　　　　　Search: [＿＿＿＿]

Name ↑↓	Email ↑↓	Phone ↑↓	Address ↑↓	↑↓
James Bullen	JamesBullen@news.com.au	0422334335	11 Bettina Street Clayton Victoria 3168	Edit | Details | Delete
Lexy Hamilton-Smith	LexyHamiltonSmith@news.com.au	0409233432	3 Wattle Avenue Glen Huntly Victoria 3163	Edit | Details | Delete
Patrick Galloway	PatrickGalloway@news.com.au	0411234567	24 Boston Avenue Malvern East Victoria 3145	Edit | Details | Delete
Search Name	Search Email	Search Phon	Search Address	Search

Showing 1 to 3 of 3 entries　　　　　　　　　　　　　　Previous [1] Next

Fig.3-6 Journalists index page

Fig.3-7 Members index page

Fig.3-8 Create and Edit Journalists

Details
Journalist

name
James Bullen

email
JamesBullen@news.com.au

phone
0422334335

address
11 Bettina Street Clayton Victoria 3168

Edit | Back to List

Delete
Are you sure you want to delete this?
Journalist

name
James Bullen

email
JamesBullen@news.com.au JamesBullen@news.com.au

phone
0422334335

address
11 Bettina Street Clayton Victoria 3168

DELETE | Back to List

Fig.3-9 View and Delete Journalists

DOCUMENTATION

● It shows the author and image details with the form of tables. All the images used in this application are included.

Author details

Name	Sung-Che Lee (Robin)
Student ID	28872401
Unit name	FIT5032 Internet applications development
Unit provider	Monash University, The Caulfield School of Information Technology
Task number	Credit
Tutor name	Yiwei Zhong
Email	slee0028@student.monash.edu
Task specification	Draft HD Code Task Details (2017)

Fig.3-10 Author details

Image details

Image	Author
	Start Bootstrap Template – Clean Blog
	Start Bootstrap Template – Clean Blog
	Start Bootstrap Template – Creative

Fig.3-11 Image details

REGISTER

Register.
Create a new account.

Email

visitor1@gmail.com

Password

••••••••

Confirm
password

••••••••

REGISTER

Fig.3-12 Register

LOGIN

Fig.3-13 Log in

● Account management main page

Fig.3-14 Account management

● Change password

Fig.3-15 Change password

- See all members

Fig.3-16 See all members

- See account detail

Fig.3-17 See account detail

- Change account detail

My account

Email

visitor1@gmail.com

Phone Number

0411234567

Address

2 Boston Avenue Malvern East Vict

Date of Birth

23-10-1983

First Name

David

Last Name

Yang

SAVE

Back to account settings

Fig.3-18 Change account detail

● Upload image

Upload Image

Image

選擇檔案 coffee.jpg

UPLOAD

Back to List

Fig.3-19 Upload image

4. **Usability Design Review**

A bootstrap template from Start Bootstrap is adopted in this application.

Navigation

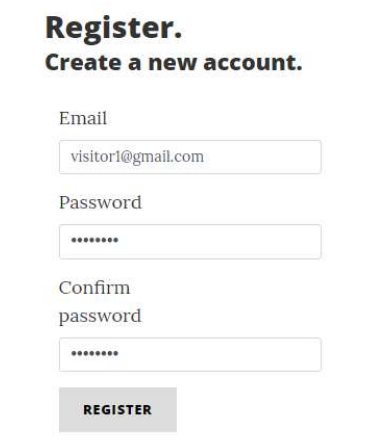Fig.4-1 Navigation bar

Familiarity
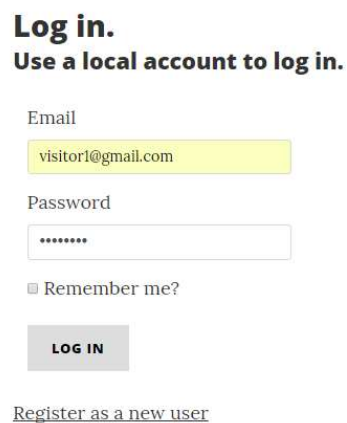
Fig.4-2 Register

Fig.4-3 Log in

Consistency

Index

Create New

Show 10 ▼ entries   Search: [   ]

Title	Content	Date	Category	Name	
Facebook Opens Training Center in Brazil	The social media service Facebook plans to open a training center in Brazil for computer coders and	17/10/2017	Science & Technology	Patrick Galloway	Edit | Details | Delete
Apple Introduces Major Upgrades to Trademark iPhone	Apple released the latest in smartphone technology Tuesday — the $1,000 iPhone X (the X stands for t	11/10/2017	Economy & Business	Patrick Galloway	Edit | Details | Delete
Search Title	Search Content	Search Da	Search Cat	Search N	Search

Showing 1 to 2 of 2 entries   Previous **1** Next

Fig.4-4 Articles index page

Index

Create New

Show 10 ▼ entries   Search: [   ]

Name	Email	Phone	Address	
James Bullen	JamesBullen@news.com.au	0422334335	11 Bettina Street Clayton Victoria 3168	Edit | Details | Delete
Lexy Hamilton-Smith	LexyHamiltonSmith@news.com.au	0409233432	3 Wattle Avenue Glen Huntly Victoria 3163	Edit | Details | Delete
Patrick Galloway	PatrickGalloway@news.com.au	0411234567	24 Boston Avenue Malvern East Victoria 3145	Edit | Details | Delete
Search Name	Search Email	Search Phon	Search Address	Search

Showing 1 to 3 of 3 entries   Previous **1** Next

Fig.4-5 Journalists index page

16 | Page

Fig.4-6 Members index page

Error prevention

Fig.4-7 Clear error message

Feedback

Fig.4-8 Search function

Visual clarity

Fig.4-9 Date picker

Index

Create New

Show 10 ▾ entries   Search: [   ]

Name ↑↓	Email ↑↓	Phone ↑↓	Address ↑↓	↑↓
James Bullen	JamesBullen@news.com.au	0422334335	11 Bettina Street Clayton Victoria 3168	Edit | Details | Delete
Lexy Hamilton-Smith	LexyHamiltonSmith@news.com.au	0409233432	3 Wattle Avenue Glen Huntly Victoria 3163	Edit | Details | Delete
Patrick Galloway	PatrickGalloway@news.com.au	0411234567	24 Boston Avenue Malvern East Victoria 3145	Edit | Details | Delete
Search Name	Search Email	Search Phone	Search Address	Search

Showing 1 to 3 of 3 entries   Previous 1 Next

Fig.4-10 Data table

Flexibility & efficiency

Fig.4-11 Display in mobile screen

19 | Page

5. Checklist of site functionality

1. (Layout Page)	TICK if complete
Good Design	√
Stylesheet	√
Menu	√
2. (Home page)	√
Design and content	√
Banner Image	√
3. (Site Adin)	√
Web form and validation controls	√
Formatted data entry display	√
Overall page design	√
4. (About Us)	**Not required**
About Us	Not required
Our History	Not required
Frequently Asked Questions	Not required
5. (Documentation)	√
Author/assignment details	√
6 Additional Distinction Items	√
Registration page	√
Log in page	√
Administrator to send emails	
Upload user image and Display	√
Search through the list of people using name, email and address or a combination of all	√
Audit	
No breaking of copyright	√

6. User stories

As a normal visitor without logging in, they can only browse news and see documents.

Log in function is provided for two different roles, normal member and administrator. As a normal member, they can manage their accounts, upload and see images, see all members and search members. As an administrator, they can do more managements such as articles, journalists and members.

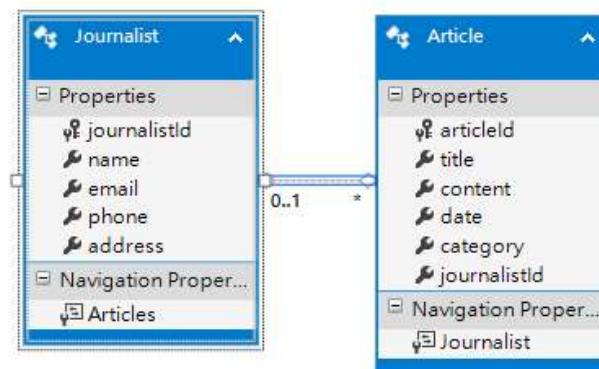7. **Entity Relation Diagram (of your database/entities)**
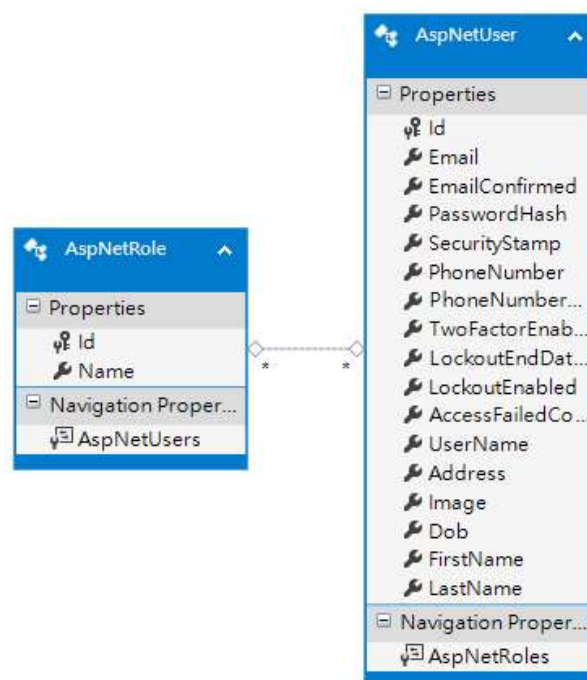

Fig.7-1 Journalist and Article

Fig.7-2 AspNetUser and AspNetRole

8. **Data dictionary**

	Name	Data Type	Allow Nulls	Default
🔑	journalistId	int	☐	
	name	nvarchar(MAX)	☑	
	email	nvarchar(MAX)	☑	
	phone	nvarchar(50)	☑	
	address	nvarchar(MAX)	☑	
			☐	

Fig.8-1 Journalist

	Name	Data Type	Allow Nulls	Default
🔑	articleId	int	☐	
	title	nvarchar(MAX)	☑	
	content	nvarchar(MAX)	☑	
	date	date	☑	
	category	nvarchar(50)	☑	
	journalistId	int	☑	
			☐	

Fig.8-2 Article

	Name	Data Type	Allow Nulls	Default
🔑	Id	nvarchar(128)	☐	
	Email	nvarchar(256)	☑	
	EmailConfirmed	bit	☐	
	PasswordHash	nvarchar(MAX)	☑	
	SecurityStamp	nvarchar(MAX)	☑	
	PhoneNumber	nvarchar(MAX)	☑	
	PhoneNumberConfirmed	bit	☐	
	TwoFactorEnabled	bit	☐	
	LockoutEndDateUtc	datetime	☑	
	LockoutEnabled	bit	☐	
	AccessFailedCount	int	☐	
	UserName	nvarchar(256)	☐	
	Address	nvarchar(MAX)	☑	
	Image	nvarchar(MAX)	☑	
	Dob	nvarchar(50)	☑	
	FirstName	nvarchar(50)	☑	
	LastName	nvarchar(50)	☑	

Fig.8-3 AspNetUser

	Name	Data Type	Allow Nulls	Default
🔑	Id	nvarchar(128)	☐	
	Name	nvarchar(256)	☐	
			☐	

Fig.8-4 AspNetRole

	Name	Data Type	Allow Nulls	Default
⚷	UserId	nvarchar(128)	☐	
⚷	RoleId	nvarchar(128)	☐	
			☐	

Fig.8-5 AspNetUserRole