National University Manila

College of Computing and Information Technologies

COURSE PROJECT

In Partial fulfillment in
BSIT-MWA
BS. INFORMATION TECHNOLOGY
WITH SPECIALIZATION IN MOBILE
AND WEB APPLICATION

Submitted by

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Project Overview

Project Description

Our project is a NU Blogsite for students of MWA and MAA. Both students and faculty can view the blogsite and read the blogs. There is a designated webpage that only students of MWA and MAA can see and access, respectively. Students can post comments and edit their own comments while the faculty members have the accessibility to delete the students' comments. For the forums, students can create their own forum thread and discuss any topic that they like and it will posted on their respective group and can only be viewed within the members of the group.

The project is developed using C# and ASP.NET in visual studio. The project is also developed within virtual machine environments, using tools such as OPNSense, Ubuntu, Windows Server, and Windows Client.

Organization's Profile

An active directory group within CCIT includes an IT group which is divided into two groups MWA & MAA which is also divided into two groups for Faculty and Students.

MWA

Faculty

- Under this group there are two users:
- The faculty has special access to an MWA dedicated Webpage
- Can delete students' comments

Students

- Under this group there are multiple users:
- The students has special access to an MWA dedicated webpage
- Can post comments on the forum page

MAA

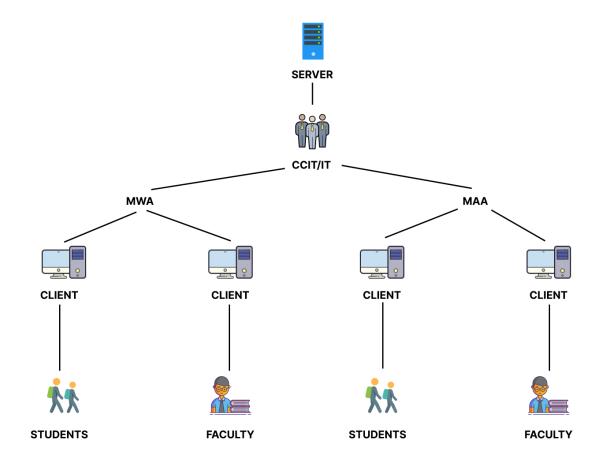
Faculty

- Under this group there are two users:
- The faculty has special access to an MAA dedicated Webpage
- Can delete students' comments

Students

- Under this group there are multiple users:
- The students has special access to an MAA dedicated webpage
- Can post comments on the forum page

Project Architecture (Network Topology)



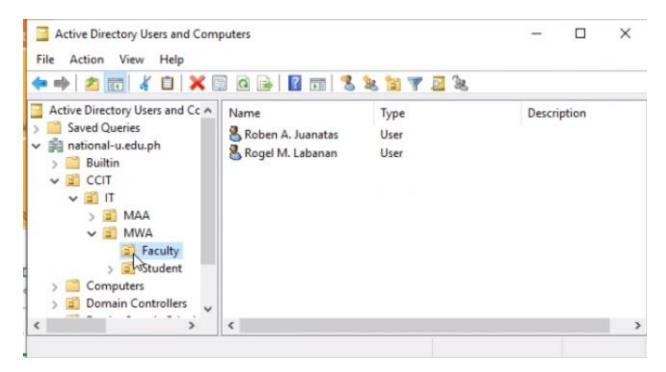
The project architecture of NU Blogsite. The website is locally hosted on the server. The server can be seen and accessed by the users within the group of MWA and MAA. Each user can login their accounts to every computer that is connected to the national-u.edu.ph domain in which users can also access and open the blogsite through the portal link (portal.national-u.edu.ph).

Implementation Documentation

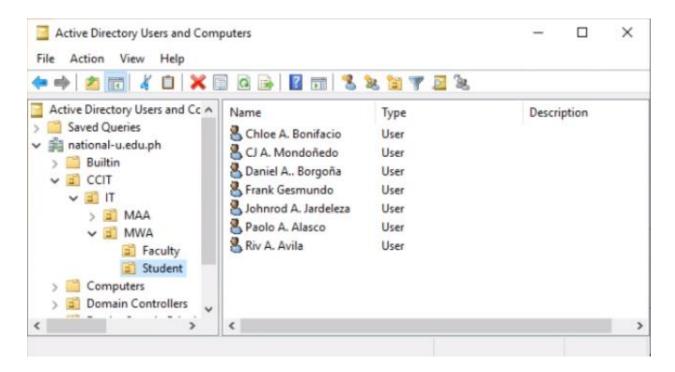
The blogsite was developed using C# and ASP.NET on Visual Studio. There are two main groups, which are MWA & MAA. Each group is divided into two groups between Faculty and Student.

MWA

Faculty

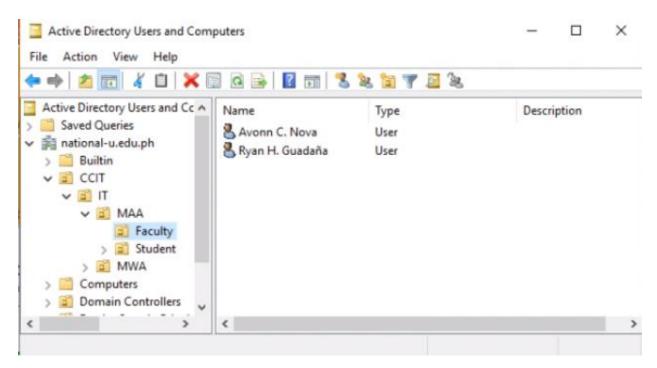


Student

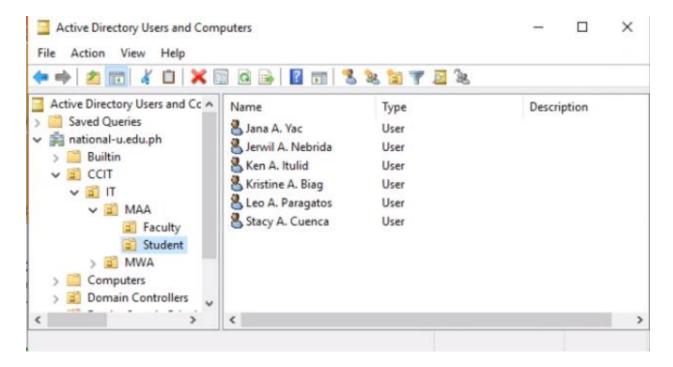


MAA

Faculty



Student



The implementation for the authorization for webpage access is shown below.

```
CommentsController.cs → X
                                                                                                              _Layout.cshtm
BlogApp
                                      - 98 BlogApp.Controllers.CommentsController
                                                                              - 😭 Edit(int id, Comments comments)
         using Microsoft.AspNetCore.Authorization;
        ■namespace BlogApp.Controllers
              [Authorize]
              1 reference public class CommentsController : Controller
  哥
                   private readonly BlogAppContext _context;
                  Oreferences public CommentsController(BlogAppContext context)
                       _context = context;
                   3 references
public async Task<IActionResult> Index()
                       return _context.Comments != null ?
                                     View(await _context.Comments.ToListAsync()) :
                                     Problem("Entity set 'BlogAppContext.Comments' is null.");
```

```
CommentsController.cs → X
                                                                                                       _Layout.cshtml * X - 0
BlogApp
                                   + BlogApp.Controllers.CommentsController
                                                                          + 🗇 Edit(int id, Comments comments)
                                                                                                                   public async Task<IActionResult> Details(int? id)
                      if (id == null || _context.Comments == null)
                          return NotFound();
                      var comments = await _context.Comments
                          .FirstOrDefaultAsync(m => m.Id == id);
                      if (comments == null)
                          return NotFound();
                      return View(comments);
                  [Authorize(Roles = "Web development, Animators")]
                  public IActionResult Create()
                                                                                                    Ln: 97 Ch: 58 SPC CRLF
```

```
CommentsController.cs & X
                                                                                                        _Layout.cshtml = X - @
BlogApp
                                    →  
    BlogApp.Controllers.CommentsController
                 [Authorize(Roles = "Web development, Animators")]
                  public IActionResult Create()
                      return View();
                 [HttpPost]
                  [ValidateAntiForgeryToken]
                  [Authorize(Roles = "Web development, Animators")]
                  public async Task<IActionResult> Create([Bind("Id,Type,Title,Comment,PostDate")] Comments
                      if (ModelState.IsValid)
                          _context.Add(comments);
                          await _context.SaveChangesAsync();
                          return RedirectToAction(nameof(Index));
                      return View(comments):
            No issues found
                                                                                                     Ln: 97 Ch: 58 SPC CRLF
```

The implementation for the authorization for forum access is shown below.

```
Layout.cshtml = X - 0
BlogApp
                                    - 48 BlogApp.Controllers.CommentsController
                                                                          + 👚 Edit(int id, Comments comments)
                  [HttpPost]
                  [Authorize(Roles = "Web development, Animators")]
                  public async Task<IActionResult> Edit(int id, [Bind("Id,Comment,PostDate")] Comments comme
                      if (id != comments.Id)
                          return NotFound();
                      if (ModelState.IsValid)
                               _context.Update(comments);
                               await _context.SaveChangesAsync();
                          catch (DbUpdateConcurrencyException)
                               if (!CommentsExists(comments.Id))
                                   return NotFound();
            No issues found
```

```
_Layout.cshtml 🗯 🗙 🔻 🧔
BlogApp
                                    - SBlogApp.Controllers.CommentsController
                                                                          - 🗑 Edit(int id, Comments comments)
                                   return NotFound();
                               else
                                   throw;
                          return RedirectToAction(nameof(Index));
                      return View(comments);
                  [Authorize(Roles = "Faculty web dev, Faculty animators")]
                  public async Task<IActionResult> Delete(int? id)
                      if (id == null || _context.Comments == null)
                          return NotFound();
                      var comments = await _context.Comments
                          .FirstOrDefaultAsync(m => m.Id == id);
            No issues found
                                100
                                                                                                    Ln: 97 Ch: 58 SPC CRLF
```

```
_Layout.cshtml 🛎 X 🕶
BlogApp
                                    - SBlogApp.Controllers.CommentsController
                                                                          - 😭 Edit(int id, Comments comments)
                           .FirstOrDefaultAsync(m => m.Id == id);
                      if (comments == null)
                          return NotFound();
                      return View(comments);
                  [HttpPost, ActionName("Delete")]
                  [Authorize(Roles = "Faculty web dev, Faculty animators")]
                  public async Task<IActionResult> DeleteConfirmed(int id)
                      if (_context.Comments == null)
                          return Problem("Entity set 'BlogAppContext.Comments' is null.");
                      var comments = await _context.Comments.FindAsync(id);
                      if (comments != null)
                          _context.Comments.Remove(comments);

 No issues found

                                                                                                     Ln: 97 Ch: 58 SPC CRLF
```

```
| CommentsControllers | Sayout_canter| | Agriculture | Agr
```

Blogsite Forum Webpage is shown below.

Student's View

TheBoys Home CCIT Forums Hello, NATIONAL-U\jj!

Create a blog

Title	PostDate	
The Navigating Academia on the Go: The Student's Mobile and Web App Companion	11/15/2023	Edit
Crafting Dreams: The Dynamic World of a Multimedia Arts and Animation Student	11/15/2023	Edit

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Faculty's View

