

# App Development & Modeling

BSc in Applied Computing

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Produced  
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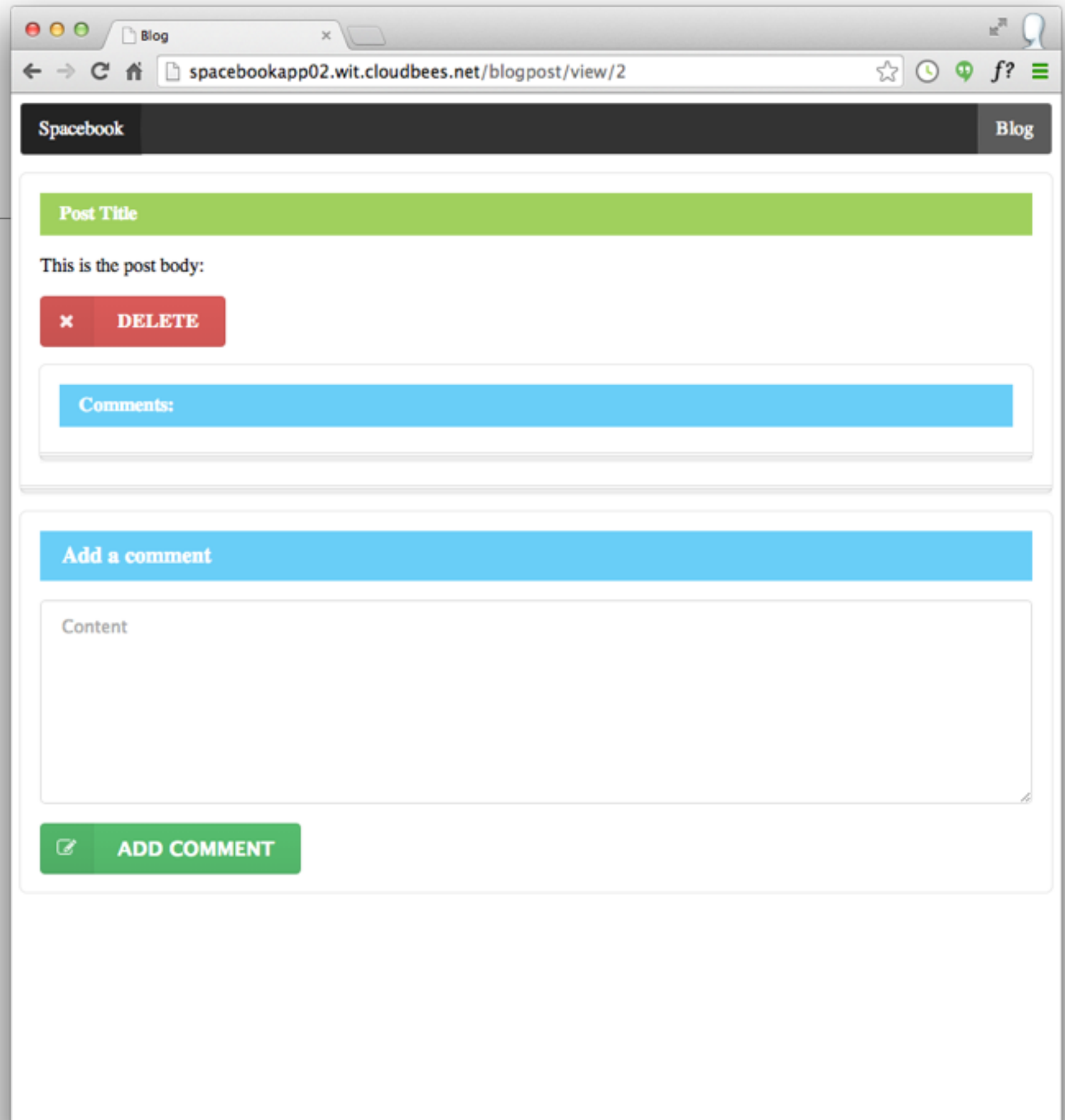


# Comment Feature

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# Post Comments

- New comments can be entered below the post



The screenshot shows a web browser window with the address bar displaying `spacebookapp02.wit.cloudbees.net/blogpost/view/2`. The page has a dark header with "Spacebook" on the left and "Blog" on the right. The main content area features a green bar labeled "Post Title", followed by the text "This is the post body:". Below this is a red button with a white "x" icon and the text "DELETE". A light blue bar labeled "Comments:" is positioned below the delete button. At the bottom of the page, there is a section titled "Add a comment" in a blue bar. This section contains a large text area labeled "Content" and a green button with a white pencil icon and the text "ADD COMMENT".

# Post Comments

- List of comments appears under comment

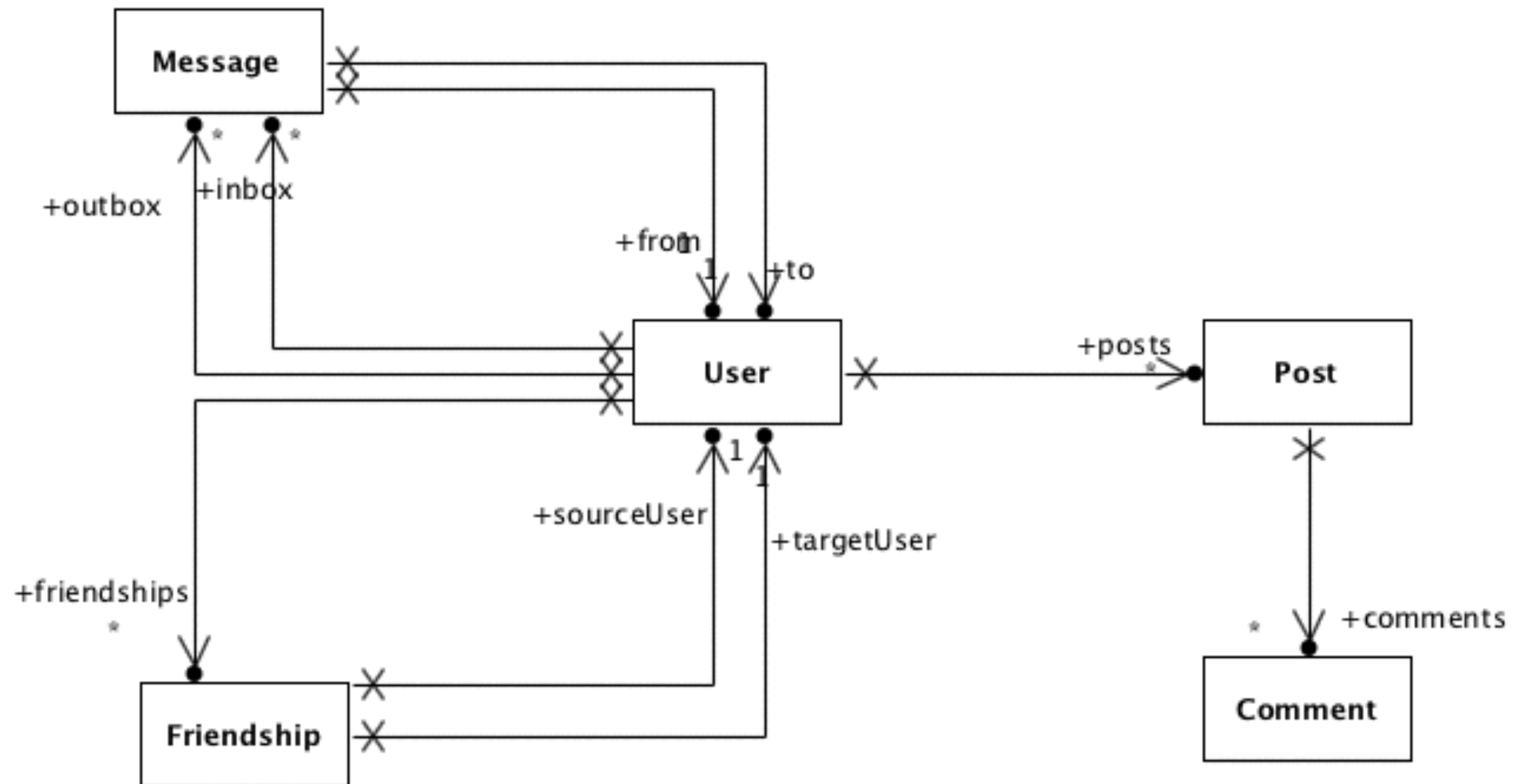
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# Post Comments

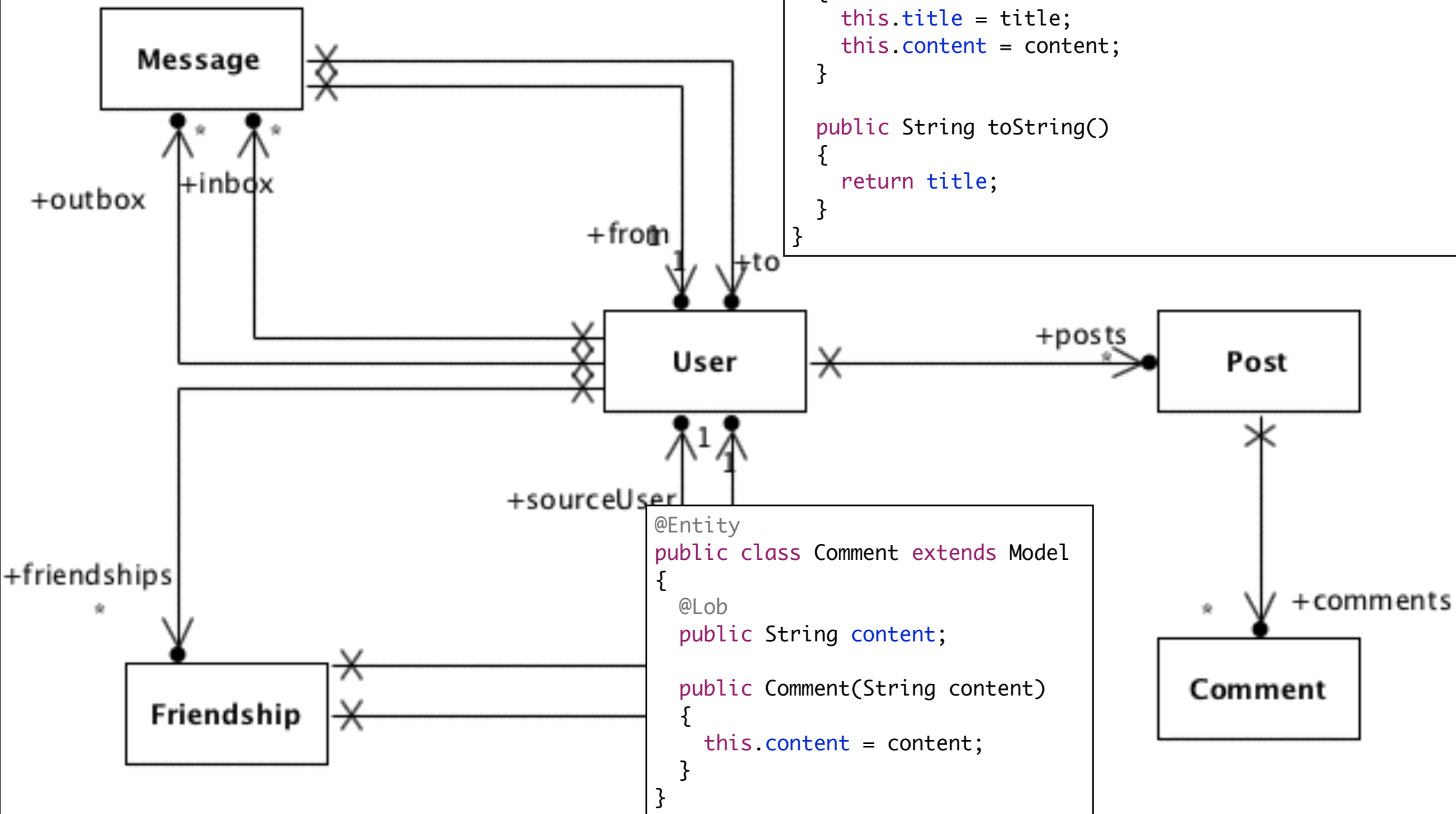
- Comments appear in order in which they are made

The screenshot shows a web browser window with the address bar displaying `spacebookapp02.wit.cloudbees.net/blogpost/view/2`. The page has a dark header with "Spacebook" on the left and "Blog" on the right. The main content area features a green bar for the "Post Title", followed by the text "This is the post body:". Below this is a red button with a white "x" icon and the text "DELETE". A light blue bar labeled "Comments:" introduces a list of comments. The first comment is "this is the first comment" and the second is "this is the second comment", each followed by a horizontal line for a reply. At the bottom, another light blue bar says "Add a comment", followed by a large text area labeled "Content". A green button with a white pencil icon and the text "ADD COMMENT" is at the very bottom.

# Model First



# Model First



```

@Entity
public class Post extends Model
{
    public String title;
    @Lob
    public String content;

    @OneToMany public List<Comment> comments = new ArrayList<Comment>();

    public Post(String title, String content)
    {
        this.title = title;
        this.content = content;
    }

    public String toString()
    {
        return title;
    }
}

```

```

@Entity
public class Comment extends Model
{
    @Lob
    public String content;

    public Comment(String content)
    {
        this.content = content;
    }
}

```

# Post & Comment

- Posts maintain list of comments
- Write unit tests to:
  - Create comments
  - Delete comments

```
@Entity
public class Post extends Model
{
    public String title;
    @Lob
    public String content;

    @OneToMany    public List<Comment> comments = new ArrayList<Comment>();

    public Post(String title, String content)
    {
        this.title = title;
        this.content = content;
    }

    public String toString()
    {
        return title;
    }
}
```

```
@Entity
public class Comment extends Model
{
    @Lob
    public String content;

    public Comment(String content)
    {
        this.content = content;
    }
}
```



# Comment Test Fixtures

---

```
public class CommentTest extends UnitTest
{
    private User bob;
    private Post aPost;

    @BeforeClass
    public static void loadDB()
    {
        Fixtures.deleteAllModels();
    }

    @Before
    public void setup()
    {
        bob = new User("bob", "jones", "bob@jones.com", "secret", 20, "irish");
        aPost = new Post ("Post A", "This is the post A content");
        bob.posts.add(aPost);
        aPost.save();
        bob.save();
    }

    @After
    public void teardown()
    {
        bob.delete();
        aPost.delete();
    }
}
```

# Comment Test (1)

---

```
@Test
public void testAddComment()
{
    Comment comment1 = new Comment("Comment 1");
    comment1.save();

    User user = User.findByEmail("bob@jones.com");
    Post post = user.posts.get(0);
    post.comments.add(comment1);
    post.save();
    user.save();

    User anotherUser = User.findByEmail("bob@jones.com");
    assertEquals("Comment 1", anotherUser.posts.get(0).comments.get(0).content);
}
```

# Comment Test (2)

---

```
@Test
public void testAddDeleteComment()
{
    Comment comment1 = new Comment("Comment 1");
    comment1.save();

    User user = User.findByEmail("bob@jones.com");
    Post post = user.posts.get(0);
    post.comments.add(comment1);
    post.save();
    user.save();

    User anotherUser = User.findByEmail("bob@jones.com");
    assertEquals("Comment 1", anotherUser.posts.get(0).comments.get(0).content);

    post.comments.clear();
    post.save();
    comment1.delete();

    User yetAnotherUser = User.findByEmail("bob@jones.com");
    assertEquals(0, yetAnotherUser.posts.get(0).comments.size());
}
```

# BlogPost Controller

---

- New Action:
  - newComment - create a new comment

```
public class BlogPost extends Controller
{
    public static void view(Long postid)
    {
        Logger.info("Post ID = " + postid);
        Post post = Post.findById(postid);
        render (post);
    }

    public static void newComment(Long postid, String content)
    {
        ?
    }
}
```

# BlogPost/view.html

Spacebook Blog

Post Title

This is the post body:

✕ DELETE

Comments:

this is the first comment

this is the second comment

Add a comment

Content

ADD COMMENT



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