



TicText Project Documentation

Version 1

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1 Goals of the Documentation

You should write your documentation as though you are explaining your project to a new developer who is about to join your team. You should include enough details so that he or she can get started quickly. On the other hand, the documentation should not overwhelm them with too much information that can be easily discovered by reading the code. Your documentation should include pointers to important facts that you wished you had known when you started the project, e.g., limitations of a framework you used or a workaround for a nasty bug you encountered, etc. These are things that people cannot figure out quickly unless it has been documented.

1.1 Deliverables

Submit the documentation along with your code under the final-release tag of your code repository.

1.2 Final Documentation

The documentation is worth 20 points. It needs to include the following items (you can use this as a guide for the table of contents):

You should be able to re-use material from the homeworks and your writing assignments (if you are taking CS429) while preparing the documentation.

1.3 Formatting Guidelines

1. Your document must have a table of contents.
2. All class, method names, code must be in monospace font. Use a font like Courier, Monaco, etc
3. All figures must be labeled.
4. Do not draw the diagrams by hand – use a diagramming tool.
5. All pages must be numbered.
6. Your documentation should follow consistent formatting for sections, headers, etc., for the entire document.
7. Your documentation should be at least 5 pages but not more than 15 pages.

2 What is TicText?

2.1 Brief Description

TicText is an iOS messaging app that allows you to send expire-able text with your friends. We call this kind of text "Tic", as in the sound of a clock counting down (Tic Tok, Tic Tok...). For each Tic sent to your friends, you will be able to set a time duration, which will be the amount of time before the Tic got expired and becomes unable for your friend to retrieve its content. That is to say, the recipient can only retrieve the content from our server within a certain time period after the sender sent the Tic. Here is an example of a possible scenario of using TicText:

JOHN: *[He is drunk at 3am and sends a tic using HIS PHONE to MARY with a 60 minute expiration time. The tic reads...]*

Hey babe, I miss you so much and I really regret breaking up with you...

[MARY (while sleeping) receives a notification on her phone.]

MARY'S PHONE: Someone has just sent you a Tic! Swipe to read before it's too late.

Tic Tok...

[The next morning, MARY saw the notification and opened the app. The only thing left was...]

TICTEXT ON MARY'S PHONE: Sorry you've missed a Tic which expired on 4:00 am.

TicText would also let you to send a Tic anonymously - even if the recipient saw the notification in time, he/she still won't be able to see the sender's name.

We believe TicText is also capable of creating romance in many ways. But in the example above, well, hopefully TicText just avoid something awkward or even more.

2.2 Motivation

We would like to build something brings people joy and more importantly, works even with limited amount of users. So we gave up on the ideas related to sharing, social networking, or dating, and focused on single user or 1-on-1 experiences. I believe TicText could be something we, especially the younger generation, would enjoy. Also, building a mobile app with modern technologies will always be challenging and exciting. From my past experiences, I'm sure we could learn a lot and have fun as well.

2.3 Risks/Challenges

One of the biggest challenges would be building a good-looking UI with great user experience. There wouldn't be many features in TicText so UX will be the top priority with no doubts. In the meantime, we have to think about the security of all the Tics as well. The last thing we want is compromising user's privacy. In order to do that, we need more

than beautiful code, but also coding in the "right way" using the "right tools". Another possible challenge is learning how to code and deploy on Parse if we choose to use it as our cloud platform.

3 Formal Software Development Process

The process followed by your team (make use of your essay if you are taking CS429) - (5 points)

Make sure to address the issues of iterative development, refactoring, testing and collaborative development (even if you are not using XP, you have to address these issues in your documentation).

4 Requirements & Specifications

Requirements & Specifications of your project (make use of HW2 and HW3) - (5 points)
This should include the user stories and use cases which you implemented in your project.
You do not need to mention the requirements which were dropped.

Table 1: Iteration 2, Feb 7 - Feb 19

Story Points (<i>Actual</i>)	Story Points (<i>Estimated</i>)	Description	Assignee
8	8	US1: As a user, I can use Facebook to login.	Unknown
3	3	US2: As a user, I want TicText to automatically sync and connects me with friends already on TicText	Unknown
2+	5	US12: As a user, I want to get a notification when one of my Facebook friends joins.	Unknown
13+	16	<i>Total Story Points</i>	

Table 2: Iteration 3, Feb 20 - Mar 5

Story Points (<i>Actual</i>)	Story Points (<i>Estimated</i>)	Description	Assignee
6	5	US15: As a user, I want to see which of my friends are already on TicText when I join	Jack, Georgy
10	8	US3: As user, I want to see conversations in bubbles like SMS, WhatsApp, etc. (controller)	Kevin, CK
3	3	US11: As a sender, I want to send a Tic (text-only) to a hardcoded TicText friend (backend)	Terrence
3	3	US8: As a recipient, I will get a push notification when a new Tic has arrived.	Georgy
1	3	US5: As a recipient, I want to see the conversation view controller when I open the notification	Kevin
3	3	US6: As a recipient, I want to have to tap a new message before I can see its contents	CK
3	3	US7: As a user, when I'm not in a conversation view I want a tab controller to switch between Conversation List, Contact List, My Profile, and (Settings)	Kevin
3	3	US9: As a user, I want to be able to change my notification settings and access the Facebook page through the Settings VC	Jack
32	31	<i>Total Story Points</i>	

Table 3: Iteration 4, Mar 6 - Mar 19

Story Points <i>(Actual)</i>	Story Points <i>(Estimated)</i>	Description	Assignee
8	5	US4: As a sender, I want a set a time expiration before I send the Tic. (backend & custom view element)	Terrence
8	5	<i>Total Story Points</i>	

Table 4: Iteration 5, Mar 30 - Apr 10

Story Points (<i>Actual</i>)	Story Points (<i>Estimated</i>)	Description	Assignee
??	5	US: As a recipient, I want to see all my new Tics (without a sender) in an unread list above my conversation list	Jack, Kevin
??	1	US: As a recipient, I want to get sent to a conversation screen when I select an unread unexpired Tic from the unread list.	Jack, Kevin
??	1	US: As a user, I want my conversations with unread messages to be highlighted in the conversation list.	Jack, Kevin
??	3	US: As a recipient, a new Tic only show up in my active messages view if sent within 5 min from the last one; or it goes into the unread list.	Kevin
5	5	US: As a user, I want to see a contact list and be able to filter people by name.	Jack
3	3	US: As a user, I want to be able to send Tics anonymously.	Terrence
1	3	US: As a sender, I want to set the expiration time for the current Tic after tapping on the "expires in ..." button in the toolbar.	Terrence
1	1	US: As a sender, I want to choose if the Tic is anonymous or not within the toolbar.	Terrence
5	5	US: As a sender, I would like to have a toolbar to set the type of the Tic, expiration time, anonymous or not.	Terrence
??	27	<i>Total Story Points</i>	

Table 5: Iteration 6, Apr 11 - Apr 24

Story Points (<i>Actual</i>)	Story Points (<i>Estimated</i>)	Description	Assignee
??	5	US: As a user, I want to be able to view and edit my display name and profile picture in Settings (controller)	Jack
??	5	US: As a sender, I want to select the image the way Facebook Messenger does. (after tapping on the image icon in the toolbar)	CK
5	3	US: As a recipient, I want a timer on my unread unexpired Tics in the messages view before it was tapped.	Georgy
??	5	US: As a sender, I want to take a picture and send it the way Facebook Messenger does after tapping on the camera icon in the toolbar.	CK
??	18	<i>Total Story Points</i>	

Table 6: After Iteration 6 (Last Iteration), Apr 25 - May 3

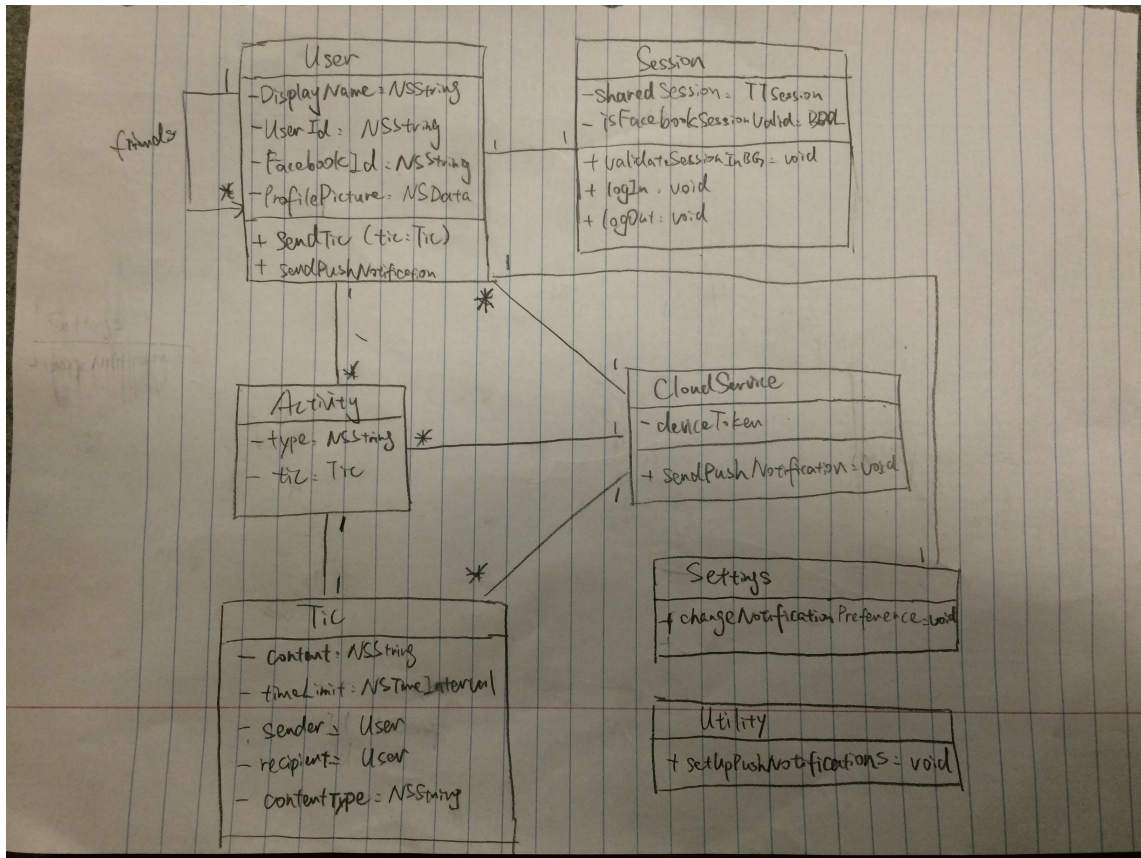
Story Points (<i>Actual</i>)	Story Points (<i>Estimated</i>)	Description	Assignee
??	3	US: As a recipient, I want to be able to differentiate between anonymous senders using their name (Anonymous Table, Anonymous Car, Anonymous Penguin, etc.)	Unknown
??	3	US: As a recipient, I want anonymous Tics from the same person to be in the same conversation.	Unknown
??	1	US: As a user, I want to be able to delete conversations and individual messages.	Unknown
??	7	<i>Total Story Points</i>	

5 Architecture & Design

(make use of HW2 and HW3) - (5 points)

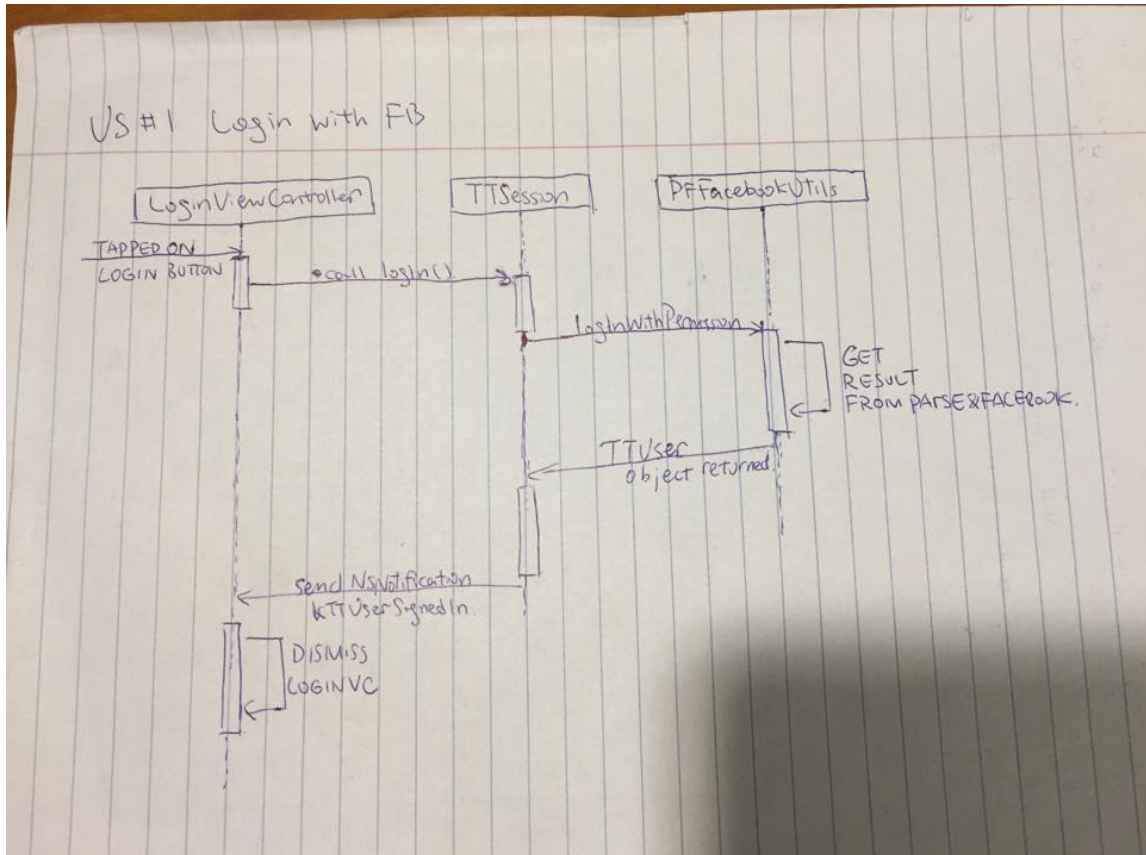
1. Include multiple UML diagrams to show the important parts of your system (you must have UML diagrams).
2. Describe in a top-down manner the architecture of your system.
3. Include enough details about the design of your system such that anyone who refers to your documentation can understand the major components of your system and how they are related.
4. Describe how the choice of the framework influence the design of your system.

5.1 Class Diagram

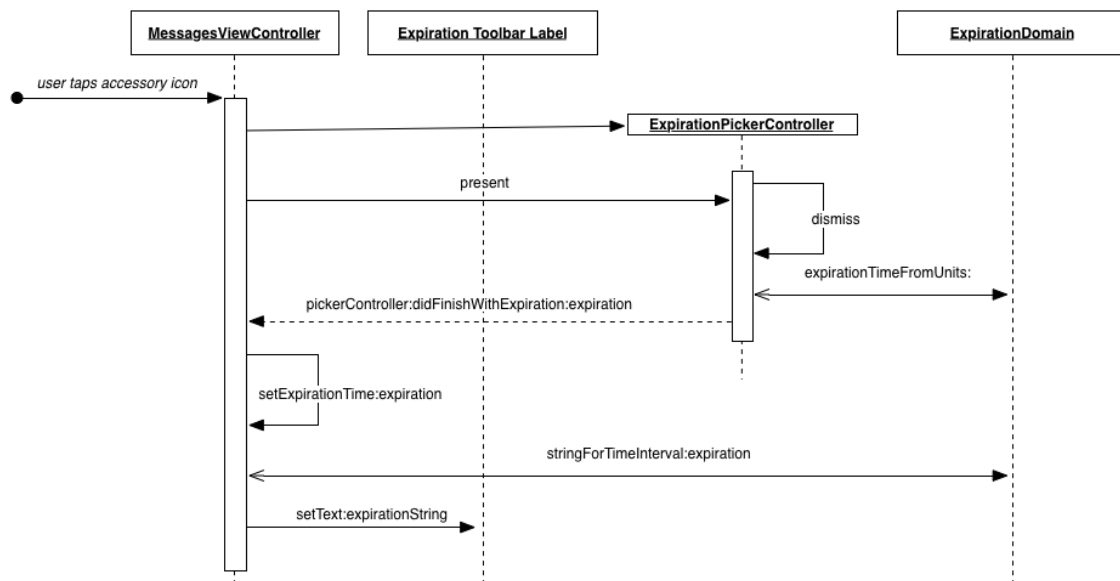


5.2 Sequence Diagrams

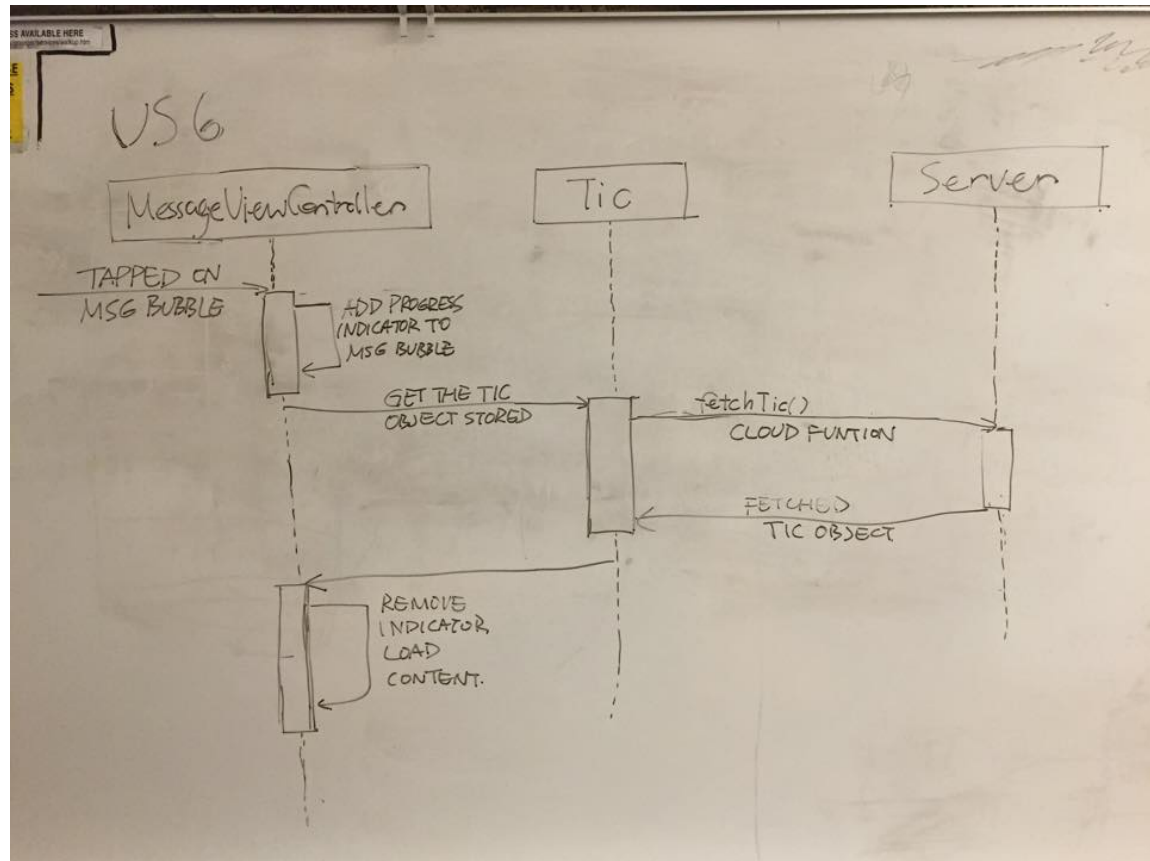
5.2.1 US1



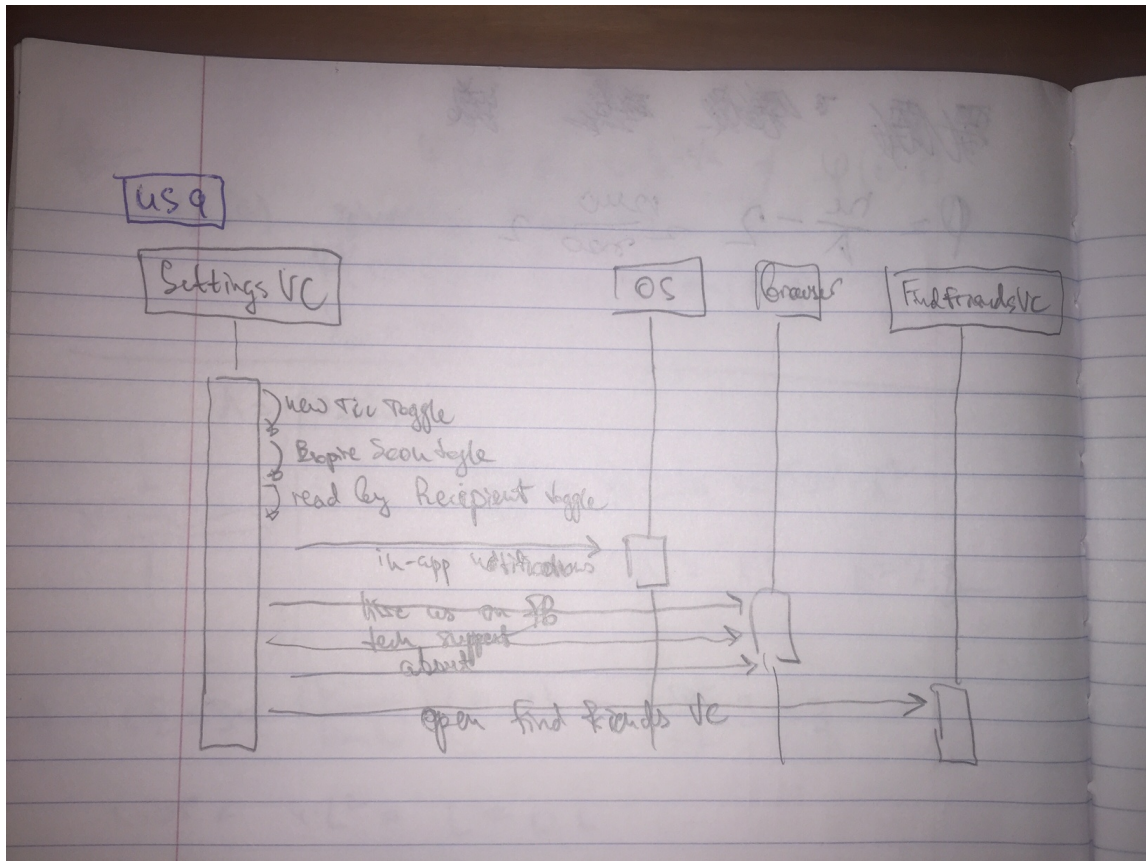
5.2.2 US4



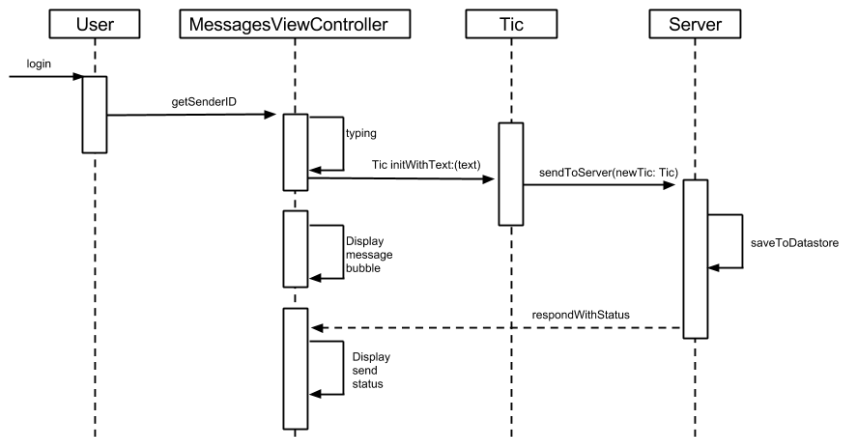
5.2.3 US6



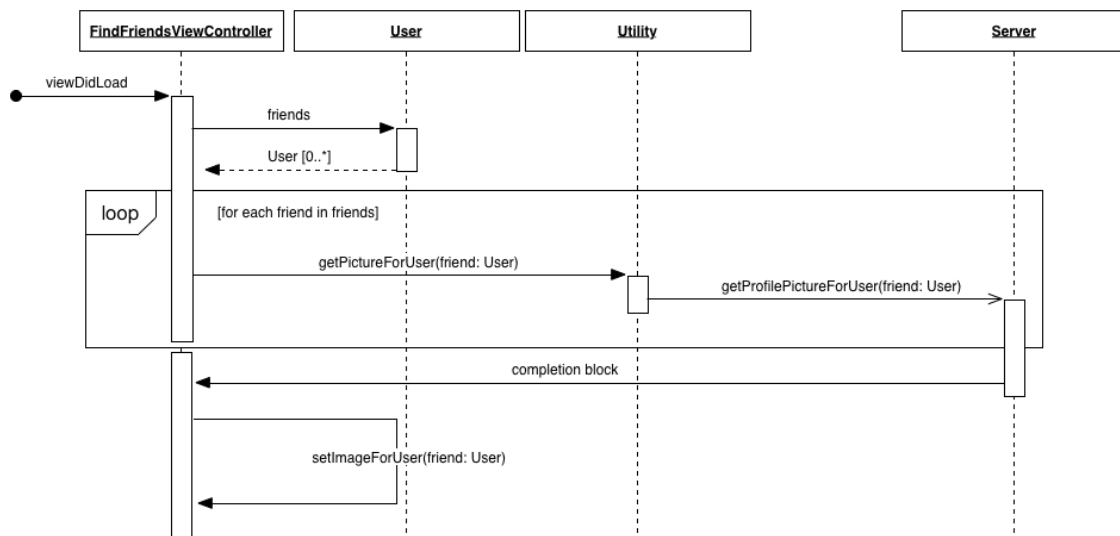
5.2.4 US9



5.2.5 US11



5.2.6 US15



6 Future Plans

Future plans - (3 points)

Include personal reflections on the project and process by each team member. Describe what you learned.

Table 7: Future Stories

Story Points	Description
5	As a user, I want to send a voice message Tics to a TicText friend.
3	As a user, I want to be able to set the app's color scheme in the in-app Settings
5	As a user, I want to be able to set and sync a background image in a conversation (MsgVC) with my friend
8	As a user, I want to be able to enter my phone number and have the app use my Address Book to automatically match us.
3	As a user, I want to be able to check someone's profile from inside the conversation view.
3	As a user, I want to be able to send a text with an invitation to join TicText to a person in my Address Book