

Ask2Pay	Team Number: 5
SE 477 Feature Estimation and Scheduling	Date: 5/22/2020

## Product Name & Description

Product name: Ask2Pay

Description: Ask2Pay is an electronic payment application that provides alternative payment methods for users who depend on others to fund their endeavors. This application is strictly a request-only service, which means that contributors cannot arbitrarily send gifts any time they want. A requester must initiate a monetary request before contributors can respond. For example, options exist for users to request other users to pay for them on the app via gift or loan. An additional method of payment could potentially be via crowdfunding. Through Ask2Pay, a user could request a one-to-one monetary gift/donation from another user, organize a crowdfunding effort, or request a loan. Moreover, Ask2Pay is not just for individual use. Ask2Pay is designed to be utilized by various institutions, such as non-for-profit organizations, to set up crowdfunding campaigns to attain funds via donations.

**First Release Theme (from A4):** Causes and Group Payment

## Features for First Release of Product (from A4 – Features and Quality Attributes

Features Backlog			
Priority	Feature ID	Short Description	User Story
1	1-1	Requester Asks Contributor for Gift	As a requester, I want to be able to request a gift from a contributor.
2	1-2	Contributor Sends Gift	As a contributor, I want to be able to send a gift to a requester.
3	1-3	Requester Asks Group for Gift	As a requester, I want to be able to request a gift from a contributor group.
4	1-4	Contributor Contributes Partial Gift as Part of a Group	As a contributor that belongs to a group, I want to be able to contribute a portion of a gift to a Requester.
5	1-5	Contributor Anonymity Option	As a contributor, when sending a gift, I want the option of either sending it anonymously, or with my information.

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Quality Attributes List		
Quality ID	Short Description	User Story
2-1	Securitability of sensitive information	As an Ask2Pay user, I want all of my personal information including banking/payment information to be secure at all times.
2-2	Loan Protection	As a lender, I want to be sure that I am protected and that the person I am lending to has the ability to pay me back over time.
2-3	Background Check Timing	As a lender, I want the results of my background checks to be returned within 48 hours, so that be as efficient as possible
2-4	Accuracy of Data	As a lender, I want to be sure that the data provided to me is 100%, so that I can fully trust borrowers
2-5	Expedite Transactions	As an Ask2Pay user, when I make a transaction, I want it to be completed within 2 seconds
2-6	Data Backup	As a system, I want all the data of this application to have backup copies in several places both locally and virtually.

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### Complete Logical Sequence of Features for First Release of Product

Seq. #	Feature/ Quality ID	Low-priority or new?	Short Description	User Story
1	1-1	Old	Requester Asks Contributor for Gift	As a requester, I want to be able to request a gift from a contributor.
2	1-2	Old	Contributor Sends Gift	As a contributor, I want to be able to send a gift to a requester.
3	1-3	Old	Requester Asks Group for Gift	As a requester, I want to be able to request a gift from a contributor group.
4	1-4	Old	Contributor Contributes Partial Gift as Part of a Group	As a contributor that belongs to a group, I want to be able to contribute a portion of a gift to a Requester.
5	2-1 P1	Old	Securability of sensitive information	As an Ask2Pay user, I want all of my personal information including banking/payment information to be secure at all times.
6	2-2 P1	Old	Loan Protection	As a lender, I want to be sure that I am protected and that the person I am lending to has the ability to pay me back over time.
7	2-4 P2	Old	Accuracy of Data	As a lender, I want to be sure that the data provided to me is 100%, so that I can fully trust borrowers
8	2-6 P2	Old	Data Backup	As a system, I want all the data of this application to have backup copies in several places both locally and virtually.
9	1-5	Low Priority	Contributor Anonymity Option	As a contributor, when sending a gift, I want the option of either sending it anonymously, or with my information.
10	2-3	Low Priority	Background Check Timing	As a lender, I want the results of my background checks to be returned within 48 hours, so that be as efficient as possible

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11	2-5	Low Priority	Expedite Transactions	As an Ask2Pay user, when I make a transaction, I want it to be completed within 2 seconds
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## Features Resources

Feature or Quality ID	Required Resources
1-1	Developer, QA, UI/UX Designer
1-2	Developer, QA, UI/UX Designer, Security Specialist
1-3	Developer, QA, UI/UX Designer
1-4	Developer, QA, UI/UX Designer, Security Specialist
1-5	Developer, QA, Security Specialist, UI/UX Designer
2-1	Developer, QA, Security Specialist
2-2	Developer, QA, Security Specialist, Legal Specialist, Financial Specialist
2-3	Developer, QA, Security Specialist, Legal Specialist, Financial Specialist
2-4	Developer, QA, Data Analyst, Legal Specialist
2-5	Developer, QA
2-6	Database Developer, QA, Data Analyst

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### Feature Estimates and Buffer Calculation

Feature or Quality ID	Average (50%)	Worst (90%)	$\Delta^2$
1-1	2	3	1
1-2	2	3	1
1-3	3	5	4
1-4	3	5	4
1-5	2	3	1
2-1	8	8	0
2-2	3	5	4
2-3	3	5	4
2-4	2	3	1
2-5	5	5	0
2-6	8	13	25

Calculated buffer size (square root of the sum of squares): 7

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### **Planning Poker Process Retrospective**

The process our team decided to use was Planning Poker with a modified Fibonacci sequence (which included 0 and  $\frac{1}{2}$  points). For this activity, we decided that our team member, Danny, would act as scrum master and mediate our discussion. Voting was done anonymously via a planning poker add-on on our Slack channel. Very rarely did we have a unanimous consensus on a story, so after the first round of scoring, we shared our thoughts on why we thought that a particular story was scored the way it was. We all had a few minutes to share our logic on a particular score, after which we would reevaluate in order to reach a consensus. On the rare occasion when no common score was evident after the first round, we would again share our thoughts and go into a second round. Usually after this round, there would only be one remaining outlier, and a small conversation would ensue to reach a final consensus.

While we did have stories scored at 13 individually, we never had an instance where we all decided that the story deserved a consensual score of 13. The main reason for this discrepancy was due to our varying knowledge of the individual components such as security requirements for example. Obviously, not everyone was a security expert, so while it might seem daunting for one person, it was not the case for others. Our worst-case estimate scored at 58, whereas our average and buffer combined scored at 48. We find that these numbers are in agreement with our estimated velocity.

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### Sprint Features and Acceptance Criteria

Feature or Quality ID	User Story (Feature)	Acceptance Criteria
1-1	Requester Asks Contributor for Gift: As a requester, I want to be able to request a gift from a contributor.	<ol style="list-style-type: none"> <li>1. I can see the option to request a gift</li> <li>2. I can see a confirmation of the request upon submission</li> <li>3. I will receive an alert in app</li> <li>4. I can set an expiration of gift request</li> </ol>
1-2	Contributor Sends Gift: As a contributor, I want to be able to send a gift to a requester.	<ol style="list-style-type: none"> <li>1. I can see the option to send gift</li> <li>2. I will get a confirmation that the gift was sent</li> <li>3. I will receive a confirmation that the requester received the gift</li> <li>4. I can deny the request</li> <li>5. I can no longer respond to a request after the expiration</li> </ol>
1-5	Contributor Anonymity Option: As a contributor, when sending a gift, I want the option of either sending it anonymously, or with my information.	<ol style="list-style-type: none"> <li>1. I can send a gift with my information included</li> <li>2. I can send a gift anonymously</li> <li>3. When I send a gift, I will receive a confirmation</li> </ol>

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### Sprint Backlog/Sprint Tasks

Feature or Quality ID	User Story (Feature)	Sprint Task
1-1	Requester Asks Contributor for Gift: As a requester, I want to be able to request a gift from a contributor.	Create Database
		Create Prototypes
		Design UI/UX
		Create Transaction Interface for Requests
		Create Propose Test Automation Solution
1-2	Contributor Sends Gift: As a contributor, I want to be able to send a gift to a requester.	Modify Database
		Create Prototypes
		Modify UI/UX
		Create Transaction Interface for Sending
		Create Propose Test Automation Solution
1-5	Contributor Anonymity Option: As a contributor, when sending a gift, I want the option of either sending it anonymously, or with my information.	Modify Database
		Modify UI/UX
		Collaborate With Expert to Implement Methods for Fraud Detection
		Create Propose Test Automation Solution