

# **CloudTooth File Transfer**

## Requirements Document

Revision 1.0

February 19, 2018

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# Revision History

Revision	Date	Summary of changes
0.1	February 6, 2018	Initial version of document
0.5	February 8, 2018	Updated requirements
1.0	February 19, 2018	Finalized document

## Executive Summary

This document entails the functional and nonfunctional requirements that are expected to be met by our final goal, which is to produce:

- end-user documentation
- technical documentation
- working software that meets the requirements specified within this document
- product brochure

All of this is to be produced by mid-May 2018.

## Project Team

In order to produce the required deliverables, the following team members will collaborate

- Jai Punjwani (Android & back end development, Product Manager)
- Michael A. Agarenzo (full stack development)

Although team members have a primary role, both will help with all tasks.

# Terminology

Client: Mobile or web application front end

Server: Intermediary Android device, which is in proximity to PC for Bluetooth connection

PC: Personal Computer from which user wants to retrieve files

## User Stories

ID	I am a...	I want to be able to...	So that I can...
1	User	Register my Android device at home to connect to my PC via Bluetooth	View a list of files on my PC
			Transfer files from my PC to my Android device
2	User	Register my Android device on the cloud	Enable other devices to access those files
3	User	Connect other devices (mobile, computer) to the cloud	Access my transferred files from anywhere

## Functional Requirements

Functional requirements describe what our product must be able to do. Each functional requirement has an identifier, a description, a prioritization and a milestone designator. The prioritizations include

MUST: product is not considered successful if this requirement is not met

SHOULD: team will make a substantive effort to include this requirement

COULD: if meeting the requirement does not impose a risk to the project

WON'T: team will not implement the requirement

ID	Requirement	Priority	Sprint	Comments
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1	Server must be able to connect to PC via Bluetooth to list and transfer files.	MUST	1-2	
2	User must be able to access transferred files on server through the cloud	MUST	3	
3	Client must be able to view list of files and retrieve file from the cloud	MUST	4	
4	System must be able to register client devices to connect to Android server	MUST	5	
5	System could support USB file transfer in addition to Bluetooth	COULD	6	

## Non-Functional Requirements

ID	Requirement	Priority	Comments
1	PC must only communicate with client's Android device	MUST	Security
2	System must support Android client and Web Application client	MUST	
3	All non-Bluetooth communication must be done over SSL	MUST	Security
4	System should support transfer of file up to 25 MB via Bluetooth (standard email attachment size)	SHOULD	
5	Cloud server should be hosted on AWS Elastic Beanstalk	SHOULD	Decision 1
6	Backend hosted on cloud server should be written using Python/Django	SHOULD	Decision 2
7	PC background process should be written in Java	SHOULD	Decision 3