Prestige Systems

Systems Proposal for Wanderer's Tools

Prepared for:

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Prestige Systems

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EXECUTIVE SUMMARY

1.0 INTRODUCTION AND OVERVIEW

Wanderer's Tools is a company that desires to create an application for traveler's to document their travels effectively. Often times, various pieces of travel information get collected and can get lost when not organized, which is hard to do while busy traveling.

Wanderer's Tools has requested that Prestige Systems develop a system that will allow users to upload pieces of media about their travels and store them to the cloud. They can add financial transactions to a finance page, and they can create a travelogue to share with family and friends that documents their travel. Prestige Systems will develop this system, called Travel Assist System (TAS).

1.1 Problem Statement

Currently, it is difficult to keep all the information that goes into a trip together, as well as document the experience while it is ongoing. Wanderer's Tools had contracted Prestige Systems to develop a Travel Journal application. This application will allow travelers to use various electronic devices to capture information, pictures, receipts and thoughts about the trip, and easily organize this information on the go with an easy to use application. As it stands now, travelers come home and have difficulty remembering aspects of the trip, let alone organizing what they do come home with.

1.2 Project Vision and Scope

Wanderer's Tools aims to provide a tool for those that travel often, and want to document their experiences during, and after their trips. Details about trips can be very difficult to keep track of, especially with the hectic nature of travel. That is why an application that can be used to keep track of travel information, just taking a few minutes during some downtime will be beneficial for users.

Prestige Systems resolves to develop a Travel Journal system for Wanderer's Tools called Travel Assist System (TAS) to accomplish the tasks laid out by the company. TAS will allow users to keep a written journal with pictures, videos, notes, purchases, and any other useful travel information in one easily accessible space. TAS will allow users to login on multiple devices and upload all data to the cloud when there is either internet access or data reception. TAS will not log any travel information like miles traveled or location pictures are taken from, as it is outside the scope of this project.

1.3 Requirements Summary

- TAS must allow users to write and save journal entries on different styles of virtual paper
- TAS must allow users to upload and save pictures, videos, and maps
- TAS must allow upload of all media to the cloud to be accessed by other devices
- TAS must be user-friendly for people with every level of technical experience
- TAS must be compatible between PC, Mac, iOS and Android devices
- TAS must be able to stay small in storage size so data can be stored offline until an internet connection is accessible
- TAS must have a secure 2-step login system on all devices so personal data cannot easily be compromised
- TAS must allow the user to quickly input information without having to navigate through unnecessary tabs or misdirection
- TAS should have an expenses page with a running total that will calculate total expenses, taxes, and any reimbursements for employees on work travel
- TAS should contain simple editing tools to enable users to create a travelogue to showcase the highlights of the trip. This should be able to be done offline
- TAS should allow optional notifications to be turned on so that at the end of each travel they remind the user to update their travel log with the day's activities
- TAS could allow uploading of images straight from some smart cameras

1.4 Stakeholders and Interests

Prestige Systems believes that the following parties would have interest in the outcome of this project:

- People who travel want to quickly and easily document their travels
- People in the travel and tourism industries want to use the application to keep track of venues in their area to recommend
- Travel agents and trip planners want to hear from people who use the app to learn about popular destinations
- Ms. Weltz and Wanderer's Tools want an application that will fulfil their vision, and to ultimately be profitable for them
- The developers at Prestige Systems want to see the application completed to the client's standards, but also be manageable in timeframe and difficulty

1.5 Expected Costs and Benefits

The benefits of this application involve a more complete and memorable travel experience for the user. Travel is exciting in the moment but can easily be forgotten over the years without proper documentation. Another benefit will be the decrease in stress for the users, as the organizational abilities of TAS will make it so there is less for

the user to remember. Travel planners can use the information provided to plan future journeys for clients. Finally, this application will be profitable for Wanderer's Tools with its subscription-based service.

It will cost Wanderer's Tools to pay for the services of Prestige Systems in this process. The price will largely be dependent on the scope of the project, the timeframe, and difficulty. An additional cost will come in the form of the cloud hosting that will be a crucial part of the application. It will have to be decided if this is something that the user will pay for separately, will come with the subscription price, or another way.

1.6 Constraints

There are several constraints that will affect the development and usage of TAS, but the developers at Prestige Systems have ideas and will work to mitigate these constraints.

- If users with large travels upload large amounts of information, the system could crash, or the costs of storing that information on the cloud might not be worth it for us.
    - We will mitigate this constraint by capping the amount that can be uploaded by one user and allowing extra storage to be purchased at additional cost.
- Less technologically savvy users could have difficulty understanding how to use the application, which would provide unnecessary hassle during a stressful travel time.
    - We will mitigate this difficulty by providing an optional tutorial that can be accessed at anytime by users. This will keep people that prefer to learn on their own, and those that would like the tutorial happy.
- TAS needs to make sense financially for both Wanderer's Tools, and for Prestige Systems to produce.
    - We will keep the costs down by implanting a similar system to what we have worked on in the past, which will help to produce the system faster, keep costs down, and provide more content to Wanderer's Tools.

1.7 Recommendation

Prestige Systems recommends that Ms. Weltz and Wanderer's Tools carefully examine the contents of this system proposal. It is important they recognize the importance of making sure the vision for this document, so that the creation of the system by Prestige Systems aligns exactly with the vision from Wanderer's Tools. It is crucial that Ms. Weltz respond with any changes needed as soon as possible. Prestige Systems recommends meeting either in person or via Skype once a week as the system is developed. It is also recommended that some key dates are made for the most important parts of the project to be completed by Prestige Systems.

1.8 Document Overview

Listed below is the outline for the rest of the document:

1. System Initiation
    - This section contains the system request from Wanderer's Tools and the response letter from Prestige Systems
2. Feasibility Assessment
    - This section will analysis the technical, resource, schedule, organization and legal and contractual feasibility of the project
3. Requirements Definition
    - This section will address the functional, nonfunctional and data requirements of the system
4. Requirements Model
    - This section includes diagrams and explanation that describe the functionality of TAS.
5. Systems Evolution
    - This section explains the future of TAS, and what should be implemented and maintained later.
6. Conclusions and Recommendations
    - This section addresses the conclusions of the system proposal, and explains next steps for the development.

2.0 SYSTEM INITIATION

2.1 Systems Request

November 28, 2018

SYSTEM REQUEST – Travel Journal

Project Sponsor

Name: Ms. Elaine Weltz

Representing: Wanderer's Tools

Phone: 206.281.3639 E-mail: eweltz@spu.edu

Opportunity Statement:

Lots of people love to travel. And people who love to travel often like to write about their experiences, take pictures and videos, track expenses, and describe memorable sites they have seen. As part of a proposed "toolkit" for travelers, Wanderer's Tools envisions an "integrated" travel journal tool for capturing the memories of a trip of any kind.

Proposed Product:

Background and Context:

It may be a week at the beach with the family, a road trip to parts unknown, a European Cruise, a semester abroad: we engage in all kinds of travel these days. Be it long or short, near or far, travelers love to keep track of the details of their travels. The problem is, these details can be of different types: images, videos, word processor entries, paper receipts, maps…and the list goes on. The job of gathering all of this together in a single place once one returns home is time-consuming enough (and confusing if the trip is a long one) that most people don't bother. They wish that the pictures of Berlin could somehow be related to the written impressions, purchases, and details of places visited while in the city, but it never happens. WE THINK WE CAN HELP THEM WITH THAT!

Initial Vision and Scope:

We are thinking of an app for laptop and tablet computers. It would likely need to be able to work with other devices, for example, smart-phones and cameras for image and video capture. The idea is that travelers could quickly update their journal every day (or so) while on the road

as opposed to having to come home with tons of vaguely organized pictures, receipts, and random impressions that need to be organized after-the-fact. They can enhance entries at any time; we just don't want to *make them* wait until the trip is over. We know from personal experience that one comes home all fired-up to create a trip log, but few actually do it.

Here are some initial thoughts on what we might provide for our client-users:

- The ability to keep a written travel journal with pictures, videos, housing and meal notes and expenses, purchases, maps, and other trip information all using a single tool.
- A way to integrate all of the different pieces of trip information into a single integrated history. This seems probably best organized day-by-day, although being able to organize it in other ways could be nice.
- A tool that is easy to use, so that a journal can be kept up-to-date during the trip by spending only a few minutes each evening reliving the day's events, but also robust enough that there is the option to add to and enhance a trip record at any time.
- The ability to select and pull out different pieces of a trip into a kind of travelogue that can be shared with friends and family.

We know this is not everything this kind of tool could do, but hope this gives us a starting point.

Stakeholders Identified:

- People who travel and want to be able to quickly and easily keep a record of their journeys.
- Travel agents and trip planners
- Others in the travel and tourism industries
- Wanderer's Tools – we hope this will be the first of several helpful tools for people who want to see the world!
- Of course, you as our partners!

Expected Benefits:

- A better way to record one's travels on the road than by random text entries that are difficult to relate to other trip artifacts.
- A better way to keep track of trip pictures and videos than as a large collection of unmarked – and uncaptioned – picture files. It might even encourage users to sort through their pictures while still on the road!
- Enhanced ability for travelers to recall the details of their trips when they return home.
- No need to organize trip artifacts after the fact: you can return home with just the images, impressions and information you know you want to keep.
- Travel agents and trip planners might be able to use journal information to help clients plan possible future journeys.

Special Issues or Constraints:

Our prospective client-users will includes a wide range of ages (probably college-age through retired seniors) and computing skill levels. It is unlikely that a true computer novice or phobic would be interested in this type of tool, so it doesn't have to be "super simple". But it needs to be intuitive for a person who knows their way around things like word processors, spreadsheets, simple image editors, and the web.

Also, we expect we will have users who prefer Mac and users who prefer Windows. Both platforms must be supported. Being able to go back and forth between the two would be even better.

You can let Wanderer's Tools worry about exactly how this will be funded. We are currently considering a low cost, but paid, download or subscription as opposed to a strictly ad-based model. We have the capital to fund your development costs for now, assuming they are within reason. We do not have a strict timeline for completion. But since this is the first of a series of tools, we would like to have it available for distribution sooner rather than later if for no other reason than to help fund future tools.

We understand that web access would be needed for things like map downloads or GPS tracking of where a traveler has been or a site is located, and that "storage in the cloud" is very popular and safe these days. Our only concern along these lines is that Internet access is not universal in all places to which people travel. So it would seem that at least basic tasks (for example, written journaling, organizing and saving media, entering data into expense records) need to be able to be handled even when the Internet is not available.

We would like to avoid having this be an app that opens our users up to a barrage of random requests to rate places they have seen, or to unending lists of places they might want to travel to…if that is still possible in 2018.

2.2 Sales Letter

October 11, 2018

Ms. Elaine Weltz
Wanderer's Tools
241 Miller St
Seattle, WA 98119

We received your Systems Request regarding your interest in our help with your app, Wanderer's Tools. We are intrigued by your ideas and vision behind the program, and with a great love of traveling ourselves, are very interested in developing the application.

We understand that you are interested in creating a travel journal type of application, to organize all of the various things that come along with a trip. We envision creating a very straightforward and easy way to upload any type of information the user desires, with a user-friendly way to navigate between information.

Our system would allow the user to locally store each piece of information on their device, and then when connected to the internet, would automatically upload to the cloud and could be accessed from any devices logged into the account. This will ensure that travelers can use the app in remote locations with no internet or cell reception. We are also interested in implementing the ability to edit pieces of information into a sort of "travel montage", as well as allowing this to be done offline as well.

We know it can also be difficult to keep track of the various expenses that go into a trip, so we believe implementing an expenses page with a running total would be useful.

As people that share your love of travel, our interest in the success of your application can not be overstated. Please know that our vision lines up with yours and turning that vision into a reality is our goal.

I will plan to call in a few days to see how Prestige Systems can assist you.

Cameron Moe

Software Developer, Prestige Systems

3.0 FEASIBILITY ASSESSMENT

3.1 Introduction

This section addresses the risk and feasibility of this project. Ultimately, Prestige Systems has decided that this project is indeed **feasible** but will further explain the areas that have the most risk, as well as areas that are especially ideal in feasibility. Technical, resource, schedule, organizational and legal and contractual feasibility will all be addressed.

Risk will be determined and expressed on a scale of 1-5, with 1 meaning no risk, and 5 being extremely risky or should not be attempted.

- 1. No risk, there should not be any risk associated with this aspect of the project whatsoever
- 2. Low risk, there could be some aspects that have slight risk, but can easily be overcome
- 3. Medium risk, some risk but with significant planning should be able to be overcome
- 4. Significant risk, it is strongly considered not to attempt this project if there is significant risk but can be mitigated with thorough planning
- 5. Infeasible, if the risk is this high, the project is infeasible and should be scrapped
- Feasibility will be determined and expressed on a scale of 1-3, with 1 being infeasible, and 3 being completely feasible.
- 1. Infeasible, the project is not feasible and should be given up upon
- 2. Feasible, the project has some concern but still can be given the green light with adequate planning
- 3. Ideal, the project has no feasibility concerns in this area, and will only be helped

3.2 Feasibility Analysis

Technical Feasibility

The technical feasibility of this project is a **2** (feasible), with a risk level of a **2** (Low Risk).

- Our developers are familiar with this type of application, which contributes to the technical feasibility of the project. We believe this will be key to our success, which is why we consider it ideal with low risk level.

- We anticipate the project size being small enough that we have enough developers to successfully complete the project in the timeframe.

  We anticipate this being feasible with a medium risk level, because we understand problems always develop along the way that we will have to work through.
- We are anticipating most users of the application will have some technological experience, but we will still develop an app that can easily be understand by everyone regardless of experience. We anticipate this being feasible with little to no risk.

Resource Feasibility

The Resource Feasibility of this project is a **2** (Feasible) with a risk level of **3** (medium risk)

- We have the people needed at Prestige Systems to complete this project. We have a team with software developers on it that have proven their work in the past with similar systems. For example, we developed a system for a sports company for people that wanted to document games. This means that this section will be feasible with little risk.
- We have developed similar software in the past, so we would consider the software development to have little risk. We assume that most of the problems we would run into along the way have already been completed in the past.
- The hardware needed for this system could provide more difficulties with feasibility due to the large number of platforms that need to be covered by the system. Additionally, allowing the system to be worked on from multiple platforms on the same account could cause issues with compatibility. This provides us with a higher amount of risk, but ultimately still is feasible.

Schedule Feasibility

The Schedule Feasibility of this project is a **2** (Feasible) with a risk level of **2** (little risk)

- We are very likely to meet the timeframe given by Wanderer's tools, due to our experience with similar systems. This gives us low risk and ideal feasibility.
- We could run into issues with insuring that our analysis is available right when needed. Our analyst we have in mind for this project will be on vacation for one week during the development process, so work could slow down slightly during this time. This gives us feasibility but adds some extra risk with meeting the timeframe.
- We plan on implementing multiple versions of TAS, which means that if some less important parts are not completely working, they can be pushed off to the

next version. This will allow the software to be sent out earlier and then later updated. This makes our project feasible with less risk.

Organizational Feasibility

The Organizational Feasibility of this project is a **2** (Feasible) with a risk level of **2** (little risk)

- We understand that although an important system, the release of the system is not imperative immediately, as people have been traveling for many years without this application. However, we will work to complete the system as efficiently as possible. Because we are not constricted by a strict timeframe, we have a feasible project with reduced risk.

Legal and Contractual Feasibility

The Legal and Contractual Feasibility of this project is a **2** (Feasible) with a risk level of **3** (medium risk)

- We could run into legal issues if travel agencies want to track information entered by users for their future trip planning for clients. This will require some sort of consent from users to avoid legal trouble. This provides us with medium risk.
- We will have to worry about the legal implications of any tracking of miles, trips, and locations and align that with the device and user preferences. This provides us with some risk.

3.3 Additional Comments

- This project has similarities to ones successfully completed by Prestige Systems in the past, which is encouraging for the successful development and time needed to complete this system.
- Prestige Systems will not be responsible for the financing of the cloud storage but could later assist in increasing storage space.
- Development will cover numerous platforms and will have to additionally be compatible with older versions of that software. It will be up to our digression how far back we will cover.

3.4 Conclusion

Ultimately, Prestige Systems considers this project to be feasible, with low risk. The project is one that we believe we can successfully complete in the timeframe due to our previous experience with developing similar systems. Key areas to investigate will be

the implementation of the financial system with the subscription model, as well as the costs of cloud storage space. Additional work will be put in so that TAS will work on multiple platforms, as well as some older versions of these platforms.

4.0 REQUIREMENTS DEFINITION

4.1 Introduction

The requirements definition section explains the abilities and features of TAS. TAS has functional requirements, which must be included to make the system acceptable to users, data requirements, which have to do with the format and structure of data within the system and nonfunctional requirements, which are characteristics and attributes of the system as well as any constraints.

4.2 Functional Requirements

4.2.1 User Account

- The user must create an account using a username, an email or phone number, and a password. Refer to Section 5.3 Use Case 4
- The user will create a username that can be used to login on all subsequent devices. Refer to Section 5.3 Use Case 4
- TAS should allow optional notifications to be turned on so that at the end of each travel they remind the user to update their travel log with the day's activities. Refer to Section 5.3 Use Case 4

4.2.2 Media upload

- User will select to upload either a picture, video, map or text document. Refer to Section 5.3 Use Case 2
- User will be able to document the capture of the media upload with a calendar day. Refer to Section 5.3 Use Case 2
- TAS will organize the media uploads by date for the user. Refer to Use Case 2
- TAS could allow uploading of images straight from some smart cameras. This will likely come in a future update.

4.2.3 Journal Entry

- TAS must allow users to write and save journal entries on different styles of virtual paper. Refer to Section 5.3 Use Case 1
- The user should be able to take a picture of a written journal and be able to upload it as a journal entry. Refer to Section 5.3 Use Case 1

4.2.4 Expenses Page

- TAS should have an expenses page with a running total that will calculate total expenses, taxes, and any reimbursements for employees on work travel. Refer to Section 5.3 Use Case 1
- User will be able to create a new payment event, and add date, location, and amount paid. Refer to Section 5.3 Use Case 1

- Event must be able to be viewed alongside the journal, as well as in a separate expenses tab. Refer to Section 5.3 Use Case 1

4.2.5 Travelogue Creation

- TAS should contain simple editing tools to enable users to create a travelogue to showcase the highlights of the trip. This should be able to be done offline. Refer to Section 5.3 Use Case 5

4.3 Data Requirements

4.3.1 User Account

- TAS must store the user's name, username, email or phone number, and password when an account is created.
- TAS will track the IP addresses of where sign-ins occur to allow users to know if someone else has logged into their account from an unexpected location.

4.3.2 Media upload

- Allowable datatypes for pictures will be .png, and will handle upload of any type of video, map or text file.
- TAS will store the date that media is uploaded.

4.3.3 Journal Entry

- Journal entries will be stored as text files. The date that they are uploaded will also be saved by the system.
- Any photo journal entries taken by the user will be stored as png.

4.3.4 Expenses Page

- TAS will store the monetary values of total expenses, taxes, and any reimbursements for employees on work travel. They will be stored in USD
- TAS will store the date, location, and amount paid when the expenses page is updated.

4.3.5 Travelogue Creation

- When a new travelogue is created, the date of creation will be stored as well as the name of the creation.

4.4 Nonfunctional Requirements

4.4.1 Security

- TAS must have a secure 2-step login system on all devices so personal data cannot easily be compromised.
- Administrator will have access to user accounts and can reset usernames and passwords

4.4.2 Compatibility

- TAS must allow upload of all media to the cloud to be accessed by other devices
- TAS must be compatible between PC, Mac, iOS and Android devices.

4.4.3 Storage

- TAS must be able to stay small in storage size so data can be stored offline until an internet connection is accessible.

4.4.4 Accessibility

- TAS must be user-friendly for people with every level of technical experience.
- TAS must allow the user to quickly input information without having to navigate through unnecessary tabs or misdirection.

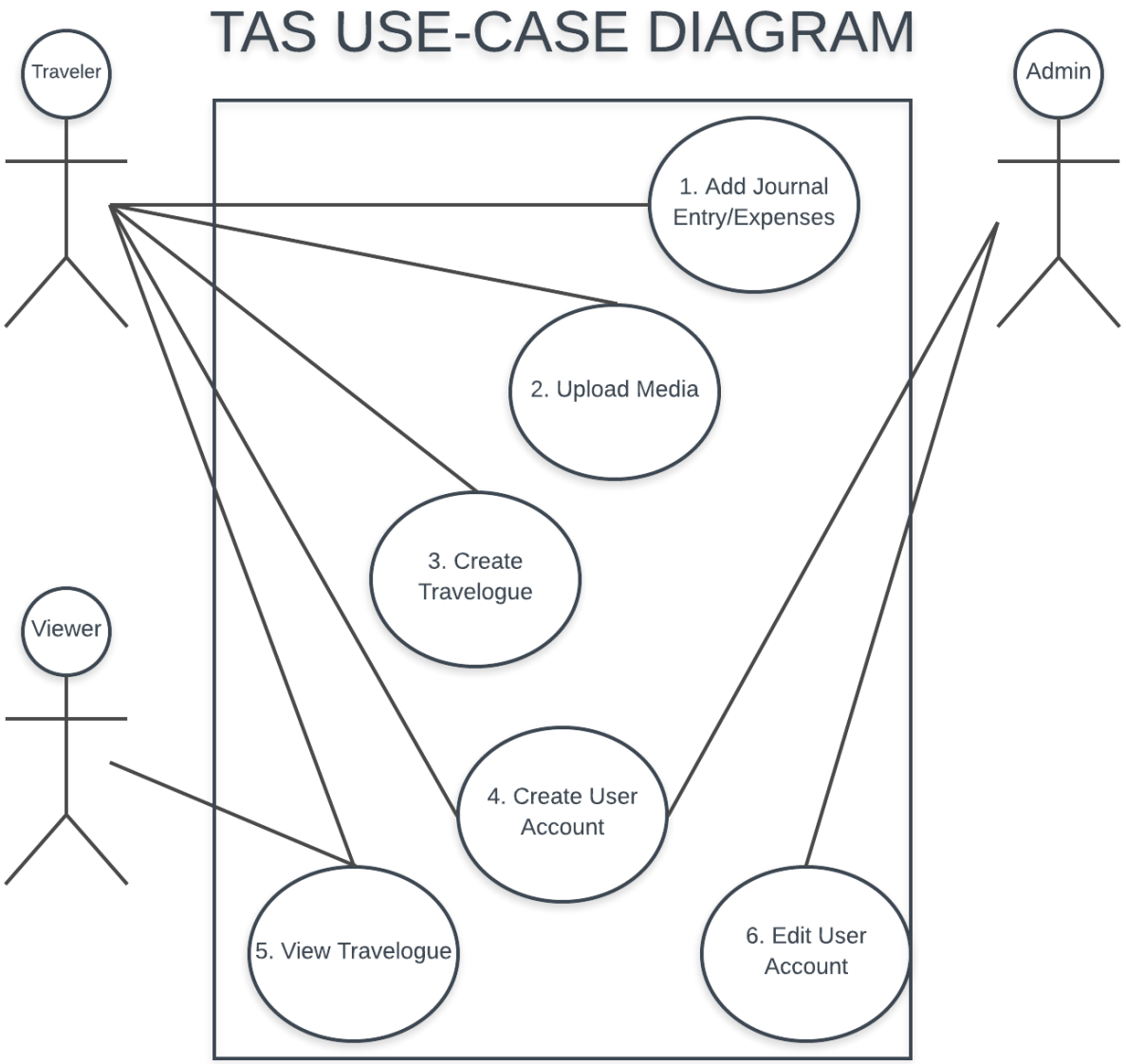
5.0 REQUIREMENTS MODEL

5.1 Introduction

The requirements model section details a use-case diagram of TAS. Descriptions of each use-case follow the diagram. The use-case descriptions explain step by step how the system works. The components of the Use-Case Diagram are as follows:

Name	Representation	Description
TAS		All Use-Cases are within the boundaries of the box. Actors on the outside interact with things in the Travel Assist System.
Actor		Actors influence the system by interacting with it from the outside.
Use-Case		A Use-Case represents a series of tasks that will be completed by the system. Each bubble is numbered and corresponds with a Use-Case Description that can be found in subsequent pages.
Assosciation		A line shows the association between actors and use-cases. When there is a line between an actor and a use-case, the actor is able to preform that use-case.

5.2 Use-Case Diagram



5.3 Use-Case Descriptions

Use-Case name: Add Journal Entry/Expenses	**ID**: 1	**Importance**: High
Primary actor: Traveler	**Use-Case type**: Detail, Essential	

Stakeholders and interests:

A Traveler wants to create a journal entry or add to expenses to document travel experience.

Brief description: The traveler adds a journal entry by selecting a type of virtual paper from the various styles. They can write a note about the day and save it with the date. The traveler can add to the expenses page with a new transaction with the date.

Trigger: Traveler clicks “Add Journal Entry” or “Expenses” buttons

Type External

Relationships:

Association: Traveler

Include: None

Extend: None

Generalization: None

Normal flow of events:

1. Traveler selects either to upload a new journal entry or to add to the expenses page.
2. Traveler enters applicable information.
3. Traveler clicks save and TAS saves the data with the date it was created.

Subflows:

S1:1 If a journal entry is added, the traveler selects a style of paper, then writes and saves the document. Traveler can also choose to upload a picture of a written journal and have it be stored with the other text journal entries.

S1:2 If an expense was added, the running total of all expenses is updated. Calculations are done automatically by the system, although can be disabled by the traveler.

Alternate / exceptional flows:

3a. If traveler does not save the data, a temporary copy of the last autosave will be stored for the next time the traveler opens the application.

Use-Case name: Upload Media	**ID**: 2	**Importance**: High
Primary actor: Traveler	**Use-Case type**: Detail, Essential	
Stakeholders and interests: A Traveler wants to upload some form of media to their travel journal.		
Brief description: The traveler can select which type of media they would like to upload (picture, video, map, text)		
Trigger: Traveler clicks “Add Media” button **Type** External		
Relationships: **Association**: Traveler **Include**: None **Extend**: None **Generalization**: None		
Normal flow of events: 1. Traveler selects “Upload Media” 2. Traveler chooses whether to upload a picture, video, map or text file 3. Traveler clicks save and TAS saves the data with the date it was created.		
Subflows: S2:1 If the traveler selects picture or video, the system gives the option of either uploading an already taken picture/video or allows the traveler to access the camera if applicable and capture one.		
Alternate / exceptional flows: 3a. If traveler does not save the data, a temporary copy of the last autosave will be stored for the next time the traveler opens the application.		

Use-Case name: Create Travelogue	**ID**: 3	**Importance**: High
Primary actor: Traveler	**Use-Case type**: Detail, Essential	

Stakeholders and interests:

A Traveler wants to be able to combine all the various pieces of travel information into one nice travelogue that can be shown to friends and family.

Brief description: The traveler creates a travelogue and adds whichever media uploads and journal entries they would like into the travelogue. Editing features allow the data to be compiled into a beautiful end product

Trigger: Traveler clicks “Create Travelogue” button

Type External

Relationships:

Association: Traveler

Include: None

Extend: None

Generalization: None

Normal flow of events:

1. Traveler selects the “Create Travelogue” button as is presented with the ability to select one of the premade themes or create their own.
2. Traveler selects all the media uploads and journal entries they want to incorporate into the travelogue.
3. Similar tools to video editing software with a timeline, transitions and cropping allow the traveler to add all their travel documentation to one video.
4. Traveler can add music from a mp4 file to their video.
5. Traveler clicks save and TAS saves the data with the date it was created.

Subflows:

S3:1 If a journal entry or text file is added to the travelogue, the traveler can select how long they want the image to be shown in the video and can add various options like having it slowly move across the screen.

S4:1 The traveler can select an mp4 file to upload their music, or can select a song from Youtube or Spotify if connected to internet, and TAS will download and place the song in.

Alternate / exceptional flows:

5a. If traveler does not save the data, a temporary copy of the last autosave will be stored for the next time the user opens the application.

Use-Case name: Create User Account	**ID**: 4	**Importance**: High
Primary actor: Traveler, Admin	**Use-Case type**: Detail, Essential	
Stakeholders and interests: A Traveler wants to create an account. An Administrator wants to create an account.		
Brief description: Both travelers and administrators need to have accounts to use travel documentation features of the app. TAS stores the account information provided.		
Trigger: Traveler/Administrator clicks “Create Account” button **Type** External		
Relationships: **Association**: Traveler, Admin **Include**: None **Extend**: None **Generalization**: None		
Normal flow of events: 1. User selects which type of account they want created, traveler or administrator 2. User enters applicable account information. 3. TAS ensures that all fields of account information are complete. 4. User decides if they want to have notifications remind them to update travel journal. 5. User clicks save and TAS saves the data and creates the account.		
Subflows: S1:1 If the user selects traveler, they must enter an username, email or phone number, password and confirm their password. S1:2 If the user selects administrator, they will be directed to an external site that confirms their identity as an administrator.		
Alternate / exceptional flows: 4a. If user does not click save, the account will not be created, and no local copy will be stored. The user will have to start over again with the account creation.		

Use-Case name: View Travelogue	**ID**: 5	**Importance**: High
Primary actor: Traveler, Viewer	**Use-Case type**: Detail, Essential	
Stakeholders and interests: A Traveler wants to view their completed travelogue, as well as other travelogues. A Viewer (Someone without an account) wants to view created travelogues without logging into an account.		
Brief description: People can view created travelogues if chosen to be posted by the users.		
Trigger: Traveler or Viewer clicks “View Travelogues” button **Type** External		
Relationships: **Association**: Traveler, Viewer **Include**: None **Extend**: None **Generalization**: None		
Normal flow of events: 1. User clicks “View Travelogues” button 2. User can sort by location or recency to view relevant Travelogues		
Subflows: S1:1 If the user is just a viewer, they will be able to view travelogues when a link is sent to them by family or friends, but they will be unable to search other travelogues without an account S2:1 If the user sorts by location, approximate locations will be given to not give exact identity of travel location for user privacy. Additionally, travelers will have to choose to have their travelogues opted into feature.		
Alternate / exceptional flows: None		

Use-Case name: Edit User Account	**ID**: 6	**Importance**: High
Primary actor: Admin	**Use-Case type**: Detail, Essential	
Stakeholders and interests: An Administrator wants to be able to edit a user account in case any information needs to be updated and the user is for some reason unable to do so.		
Brief description: An Administrator can access the accounts of travelers and edit information as needed.		
Trigger: An Administrator clicks the “View User Accounts” button **Type** External		
Relationships: **Association**: Administrator **Include**: None **Extend**: None **Generalization**: None		
Normal flow of events: 1. An Administrator logs in, and selects View User Accounts 2. The Administrator searches for the specified User and views their profile. 3. The Administrator changes any user profile information and saves the profile		
Subflows: S2:1 The Administrator can search for the user with their name, ID or email address.		
Alternate / exceptional flows: None		

6.0 SYSTEM EVOLUTION

Maintenance will be done on TAS by Prestige Systems, and system updates every 2-4 months can be expected to add new features, modernize components with new technology. Issues with the current program will be debugged and fixed continually.

Prestige Systems will continue to work on TAS after the initial version is released. These subsequent versions will improve on the existing features of the system, as well as adding some new luxury features, but will not be essential for use right away. Some content to look forward to in the future are as follows:

- The ability to upload pictures straight from smart cameras to the application.
- Provide analytics about number and location of user accounts.
- Provide analytics on most popular travel destinations.
- Provide analytics on most expensive travel destinations.
- Implement an auto-correct feature for journal entries that can be used offline.

7.0 CONCLUSIONS AND RECOMMENDATIONS

7.1 Conclusions

Prestige Systems sees the great benefit that an application like Travel Assist System would provide for Wanderer's Tools and for all travelers. Prestige Systems sees that TAS is feasible, with limited risk that can easily be accounted for. Clear functional, data, and nonfunctional requirements lay out what needs to be implemented within the system, and Prestige Systems is confident in our ability to be able to do so. Use-Cases clearly explain how various functions of the system will work.

7.2 Recommendations

Given the following conclusions, and information in the rest of the document, Prestige Systems recommends the following:

- Getting in touch with whoever will be implementing the financial part of the system. Determine how users will pay for the app, and what the subscription will look like.
- Keep in close contact with Prestige Systems throughout the system development process, to ensure that the system created is what Wanderer's Tools desires.
- Reach out to a security company, to help with the 2-step verification login system, and in general ensure the utmost security for the application.

8.0 APPENDICIES

8.1 Class Notes

10/29/2018

Q: What should the first screen be when users open the application?

A: Something very welcoming, showing which tools are available within the app

Q: Will there be a way for tourist companies to access user data?

A: Wanderer's Tools wants to be very cautious of using ads within their app; WT wants to aggregate information to be available to their team (ex: are we not appealing at all to people under 50?); travel industries do not need to know specifics about the users

Q: How essential is it to have iOS and Android OS at launch time?

A: Without both being operational, it cuts down on the user base; if it means to get up and running earlier than pick one and then do the other in the next iteration BUT eventually it needs to be on multiple different operating systems

Q: Should we have backups on the cloud or only locally?

A: Ms. Weltz thinks it would be cool to back up on the cloud when connected to WiFi while storing information locally when service is unavailable; doesn't want to cut out usability if user is not connected to the internet

Q: Should this be a paid subscription?

A: One time or annual payment; basic version for free and if user wants all features, they will have to pay more

10/31/2018

Ms. Weltz is very concerned with privacy issues when apps use social media integration

Q: When should this app be released?

A: It would be nice to have something as we are headed into the major travel season (~June or so); thinks it would be a great time for people to be able to test out the app – knows its short notice but it would be great for a target market to review it

Q: Should there be localized ads?

A: Carefully placed while they are in the tools; something about where they are right now – would be weird if they had an advertisement about where they have previously went but we do not know where the user plans on traveling next

Q: Should the system be able to interface with photo or documents tools, or have in-app text/photo editor?

A: People will want to use what they are used to using; for journaling, it would be nice to have a simple tool – for pictures, can edit the pictures before uploading them to the app

Q: Sponsored (trip planners) for profits?

A: Ms. Weltz struggled with the idea of how she will make money off the app – advertisements seem odd, but a subscription shouldn't be too expensive either; Ms. Weltz doesn't want to give a trip planner/travel agent access to her system but she would like a database of users and they will be able to opt in for emails from WT for upcoming trips ("since you traveled here, you might be interested in…")

Q: Subscription vs. One-time payment?

A: Ms. Weltz has no preference – not a monthly subscription because people don't travel every month of the year; one time or an annual subscription; base tool for free/low cost ("try before you buy") and then pay full price if users want all the bells and whistles

Q: Advertisements to get the product to more users?

A: Since we are building the app, this isn't something we should worry about – Ms. Weltz has a way of getting users

Q: What are your concerns about privacy of user's information?

A: How many people will we let know that users are going out of town? No direct connection with social media; be able to set up a group to collaborate on the same trip (if you're traveling with a group)

9.0 GLOSSARY

PS: Prestige Systems

TAS: Travel Assist System

Stakeholder: Anyone who has interest in the completion of the system

Administrator: Any user who helps manage TAS. Administrators can access and edit user accounts.

Viewer: Someone without an account who would like to view a travelogue from a family member or friend.

10.0 BIBLIOGRAPHY

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