

Use Cases for Intel Design Jam
CS 352 Winter 2011

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User Profile

Name: Sarah Johnson

Relationship Status: Single- Casual dating

Occupation: High School History Teacher

Technology Proficiency: Moderate

Access to Devices: Android Smart phone, Home Desktop, Macbook Pro, Car with built in GPS w/ Traffic, SmartBoard(Computerized White Board), Smart Refrigerator

Typical Day's Schedule

5:30am: Wake up via alarm (alarm is connected to Desktop Computer)

5:30am-6:00am: Morning Prep (Shower, etc)

6:00am-6:25am: Breakfast (Cereal with Milk, Orange Juice)

6:25am-7:00am: Commute to Work (10 miles in town, 10 miles freeway).

7:00am: Arrive at School

7:00am-7:45am: Prep before classes

7:45am-8:55am:Class: Freshman History

9:00am-10:10am: Class: A.P. U.S. History

10:15am-11:25am: Prep Period

11:30-Noon: Lunch

12:05pm-1:15pm: Class: A.P. U.S. Government

1:20pm-2:30pm: Class: A.P. European History.

2:45pm-3:30pm: Student Office Hours/Staff Meetings

3:30-5pm: Errands, Shopping, Etc.

5pm-5:30pm: Commute Home

5:30-6:00pm: Cook Dinner

6:00pm-7:00pm: Eat Dinner/Watch TV/Relax

7:00pm-8:30pm: Grade Papers/Prepare Lesson Plans/Work Prep

8:30pm-9:30pm: Read Book

9:30pm-10:00pm:Prepare for Bed

10:00pm-5:30am: Sleep

Use Cases for Intel Technology

Use Case #1: Traffic on the Freeway Causes Increase in Travel Time to Work

Technology Used: Car with GPS w/ Live Traffic Updates, Alarm clock connected to Desktop Computer

Tech Personas Used: Personal Assistant, Personal Librarian

Use Case: Sarah's GPS receives an update(at 5:00am) that traffic on Sarah's route to work is causing delays of approximately 15 minutes. Her GPS informs Sarah's Personal Assistant about this and it double checks her schedule for flexibility and sees that Sarah must either skip breakfast or wake up early. Because her personal assistant knows that Sarah feels that breakfast is the most important meal of the day and should never be skipped her Personal Assistant decides that she should be woken up early to make it to work on time. Her Personal Assistant asks her Personal Librarian if any alternate routes will be faster than her normal route with the delay. Her Personal Librarian finds a route which will only be 10 minutes slower than her normal route (compared to the 15 minutes that the delay would cause her in her normal route). While Sarah's Personal Librarian uploads the new route to her GPS her Personal Assistant instructs her desktop computer to wake Sarah up 10 minutes early in order to adjust her schedule for the delay.

Summary:

- The Car sees Sarah's normal route has a 15 minute delay and reports to the Personal Assistant
- The Personal Assistant decides that based on Sarah's preferences she must wake up early to get to work on time without missing breakfast
- The Personal Librarian finds a alternate route that will take less than Sarah's normal route (with delay)
- The Personal Assistant adjusts Sarah's alarm clock to compensate for the added travel time
- The Personal Librarian uploads the new route to the GPS

Use Case #2: Sarah's Car has a dead battery at school

Technology Used: Car with GPS w/ live traffic updates, MacBook Pro

Personas Used: Personal Assistant, Personal Technician, Personal Librarian, Personal Vault, Trusted Circles/Sources, Personal Operator

Use Case: Sarah's Personal Assistant gets an alert from her car that it has a problem and will not be able to start. Her Personal Technician determines that the cars battery is dead. Her Personal Librarian looks up how to fix the problem and sees through Sarah's Trusted Sources that AAA can help and that she is a member. Sarah's Personal Assistant looks at her schedule and sees she will be leaving work at 3:30pm and calls AAA (accessing her member ID from her Personal Vault) to set up a jump start for Sarah at 3:40pm. Her Personal Assistant then sends Sarah a Message letting her know what is going on. Because Sarah is at work her Personal operator forwards the message to her MacBook Pro since she is currently in a class.

Summary:

- While in Class Sarah's car battery goes dead
- Sarah's Personal Technician diagnoses the problem
- Sarah's Personal Librarian uses her Trusted Sources to find that AAA can help
- Sarah's Personal Assistant uses her Personal Vault to access her AAA member number

- and place a service request for when she gets off work
- Sarah's Personal Assistant sends Sarah a message appraising her of the situation
- Sarah's Personal Operator forwards the message to her Macbook seeing that she is currently in a class

Use Case #3: Sarah is lecturing her U.S. History class about the Boston Tea Party when a related news story breaks

Technology Used: SmartBoard, Macbook Pro

Personas Used: Personal Librarian, Personal Assistant, Trusted Sources

Use Case: Sarah is lecturing her Advance Placement U.S. History Class on the Boston Tea Party using a smart board. Her Personal Librarian using her trusted sources sees that a news story involving protesters disposing of tea in a lake is currently developing in the news. Her Personal Assistant receives this information and see that she has approved being interrupted in class for related news stories. Her personal assistant alerts Sarah with an audible tone from her MacBook Pro, after she reviews and approves the story it is automatically displayed for her students on the smart board.

Summary:

- Sarah is giving a lecture on the Boston Tea Party
- Her Personal Librarian discovers a related news story from her Trusted Sources
- Her Personal Assistant, noticing her preferences, notifies her in the middle of her class
- The news story is then presented to her students via the smart board

Use Case #4: Sarah has a date planned on a Friday evening, she is currently preparing to make dinner for the evening.

Technology Used: Smart Phone, Smart Refrigerator

Personas Used: Personal Assistant, My Trusted Circles, Personal Librarian

Use Case: Sarah is preparing for a date and is planning on cooking dinner. She is at the store but does not know what to make, she queries her smart phone looking for suggestions. Her Personal Librarian checks her dates food likes/dislikes through her Trusted Circles and forwards this information to her Personal Assistant. Sarah's Personal Assistant compares Sarah's likes/dislikes with those of her date. Sarah's Personal Librarian takes this information and finds recipes that both Sarah and her Date will like. Using information from Sarah's Smart Refrigerator her personal assistant provides Sarah with a list of ingredients she does not currently have that need to be purchased.

Summary:

- Sarah's Personal librarian uses her Trusted Circles to see what kind of meals her date

enjoys

- Sarah's Personal Assistant uses the information from her date to find meals that both Sarah and her date enjoy
- This information is passed back to the Personal Librarian to get a list of ingredients
- Sarah's Personal Assistant compared the ingredients to those in her smart refrigerator
- The needed ingredients are displayed to Sarah via her Smartphone.

Use Case #5: Sarah has gone grocery shopping on a Saturday afternoon.

Technology Used: Android Smart Phone, Car with GPS w/ Traffic, Smart Refrigerator

Personas Used: Personal Assistant, Personal Librarian, Personal Vault, Personal Operator, My Trusted Circles and Sources.

Use Case: Sarah has gone shopping for groceries on a Saturday afternoon. Using the information from her Smart Refrigerator, her Personal Assistant provides Sarah with a list of the items that she is currently out of. The Personal Librarian checks online for any sales or deals that Sarah can use while shopping when it finds a sale for a brand new book in Sarah's favorite series, which it knows from looking at her Trusted Circle. The Personal Assistant checks her Personal Vault to see if she has enough money put away in her account set aside for frivolous purchases. The Personal Assistant sees that Sarah has enough money for the book and has allowed the vault to notify her for this type of item. The Personal Operator looks at her schedule and knows that she is out shopping and sends the coupon to Sarah's smart phone. The Personal Librarian finds the nearest book store and programs it into her car's GPS system.

Summary:

- Sarah's Personal Assistant checks with her smart refrigerator and provides her with a list of groceries that she is out of.
- My Trusted Circles and Sources tells Sarah's Personal Librarian of her favorite book series, and the Personal Librarian looks for deals on that book series.
- The Personal Librarian sees a deal on a new release in that book series.
- The Personal Assistant checks with the Personal Vault to see if Sarah has enough money in her "Frivolous Purchase" account.
- Sarah's Personal Operator sees that she is out shopping and sends the coupon to her smart phone.
- The Personal Librarian looks up and uploads the route to the nearest book store to the car's GPS.