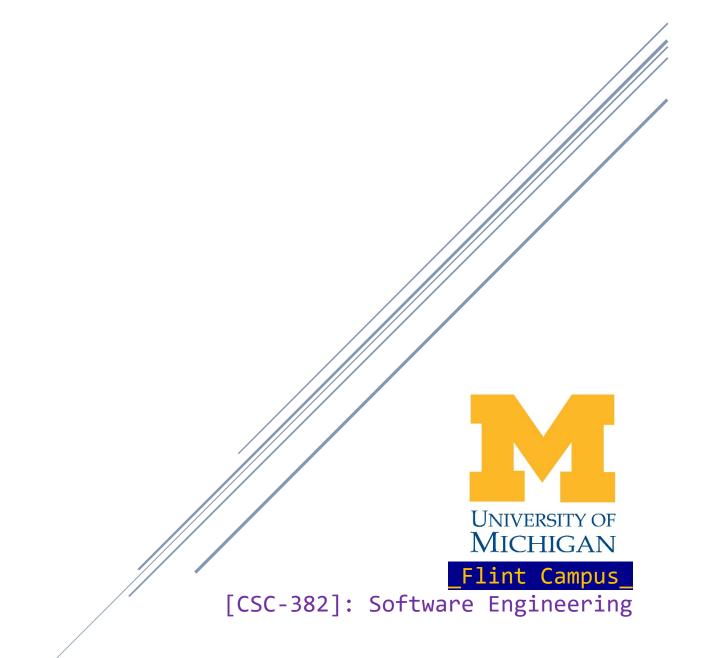
ASSIGNMENT #2

Cason Konzer 7/18/21



<u>Contents</u>

1.0 **Zachman**: Pg. [2]

Create the scope elements of the Zachman model for the Smart Ticket Purchasing Kiosk described in the Case Studies in BB. Be sure to address all the elements shown below. Try to develop a nice organization for your answer since the idea is to help other stakeholders understand your system.

2.0 Top-Level Use Case: Pgs. [4-5]

Develop two top-level, Context Use Case Diagrams for the Ticket Kiosk System.

3.0 Text/Narrative Use Case: Pgs. [7-10]

Develop two top-level, Context Use Case Diagrams for the Ticket Kiosk System.

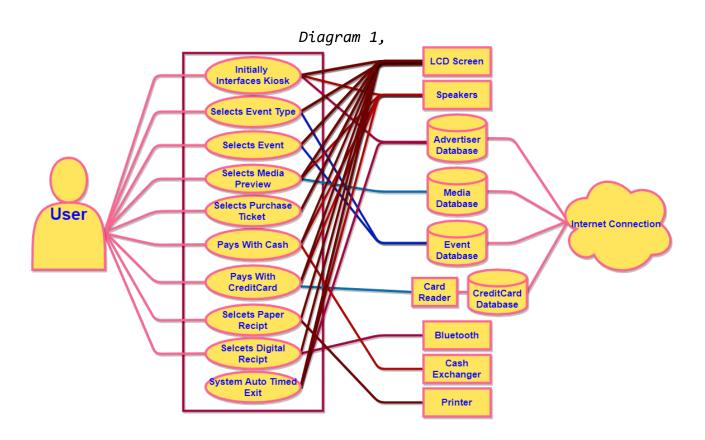
♣ Works Cited: Pg. [11]

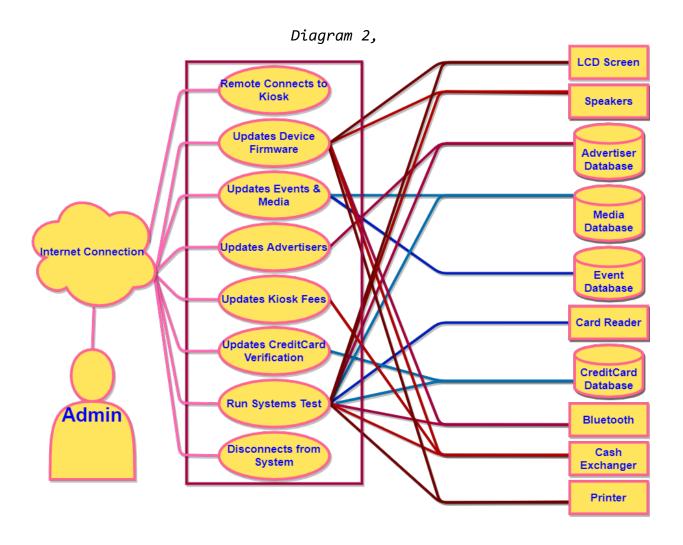
<u>Zachman</u>

	Planner Scope (contextual perspective)
What Data (entities)	- Physical ATM-like ticket vending machine - Vending/sale of virtual or paper concert and movie tickets; Money in-out (correct change) - Event previews & passive advertisements
How Function (activities)	- Live communication with vendors/database on location, timing, pricing, floor plans, seating, availability and music/movie/concert trailers/previews - Live communication with advertising companies, credit card companies, and colleges/towns Physical touchscreen, speakers, internet, printing and Bluetooth, card reading, and cash/change input/output capabilities on vending machine - Capability for both student and admin users - Time out feature to switch to advertising interface
Where	- Large college towns/cities located on campus or
Network	downtown
(locations)	- Remote admin location varies
Who	- Community and campus event coordinators (Town Hall/
People	University)
	- Concert, theater, event venues
	- Credit Card companies
	- Advertising Companies
- , , ,	- IT companies for system administration
When Time	- Local concerts, movies, events
TIME	- System launch date - First event & system update
	- 1,2,5 year assessment
Why	- Profit form providing ticket sales and
Motivation	advertisements
	- Fill venues and theaters to capacity
	- Increase community event popularity, frequency and
	attendance
	- Increase accessibility to events

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Top-Level Use Case





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Text/Narrative Use Case

Use Case 1,

Use Case: Buy Movie Ticket with Cash.	
Primary Actor: User / Buyer.	
Goal in To use the system to buy a movie ticket at a loc	al
Context: movie theater with cash.	
<pre>Preconditions: Kiosk is setup and there is at least one local m</pre>	ovie
with available tickets (user has cash payment).	
Trigger: The user plans to go see a movie soon and wishes	
buy ticket today. They wish to browse the availa	ble
titles and theaters at time of purchase.	
Scenario: 1. User: approaches kiosk and clicks on screen t	o end
advertisements.	
2. User: selects movie as event type and browses	
3. User: explores movies and watches trailers, o	hecks
availability and pricing.	
4. User: selects movie to go see and selects	
purchase.	. .
5. User: selects pay with cash, inserts money in	το
the cash exchanger and collects change.	
6. User: selects paper receipt; grabs receipt fr	OM
printer and leaves the kiosk.Exceptions:1. Kiosk is out of change and cannot accept cash	
2. Kiosk has lost connection to the internet and	
databases.	
3. Kiosk gets unplugged from power source.	
4. Kiosk display is corrupted (image or touchscr	een
out).	CCII
Priority: Essential, must be implemented.	
When First increment.	
Available:	
Frequency of Many times per day.	
Use:	
Channel to LCD Display, Speakers, Touch Screen, Cash Exchan	ger
actor:	

	Description
Use Case:	Buy Concert Ticket with Credit
Primary Actor:	User / Buyer
Goal in	To use the system to buy a concert ticket at a local
Context:	concert venue with credit.
Preconditions:	Kiosk is setup and there is at least one local
	concert with available tickets.
Trigger:	The user plans to go see a concert soon and wishes to
	buy ticket today. They wish to browse the available
-	musicians and venues at time of purchase.
Scenario:	1. User: approaches kiosk and clicks on screen to end
	advertisements.
	2. User: selects concert as event type and browses.
	3. User: explores artists and venues; listens to song
	previews, views venue pictures, checks date/time,
	available seating and pricing.
	4. User: selects concert to go see and selects
	purchase.
	5. User: selects pay with credit, inserts card into
	the card reader.
	6. User: selects digital receipt; checks phone to ensure receipt was received and leaves the kiosk.
Exceptions:	1. Kiosk is out of change and cannot accept cash.
exceptions:	2. Kiosk has lost connection to the internet and
	databases.
	3. Kiosk gets unplugged from power source.
	4. Kiosk display is corrupted (image or touchscreen
	out).
Priority:	High priority, should not be missed.
When	Second increment.
Available:	
Frequency of	Many times per day.
Use:	
Channel to	LCD Display, Speakers, Touch Screen, Card Reader.
actor:	

	Description
Use Case:	Update Events, Media, and Advertisers
Primary Actor:	System Admin
Goal in	To remove old information and provide new relevant
Context:	information to kiosk users.
Preconditions:	Kiosk is setup and there is internet connection.
Trigger:	New concert venue now works with Kiosk company, new
	titles are released, current system is out of date
	with current schedule.
Scenario:	1. Admin remote connects to kiosk.
	2. Admin clears out past events.
	3. Admin removes advertisers, venues and theaters no
	longer working with kiosk.
	4. Admin updates new advertisements, venues, and
	theaters.
	5. New titles are added to media section including
	trailers and music previews.
	6. Event schedule is updated for future.
	7. Admin logs out of kiosk.
Exceptions:	1. System was hacked, admin user no longer has
	rights.
	2. Admin user has no internet connection.
	3. System has been unplugged from power.
	4. Bug prevents admin from pushing out updates to, or
	clearing out past events from, the system.
Priority:	Medium, large inconvenience if missed.
When	4 th increment.
Available:	
Frequency of	Once per week.
Use:	
Channel to	Virtual Interface, Company Computer.
actor:	

Use Case 4,

	Description
Use Case:	Update Kiosk Firmware and Run Systems Test, and
	checks cash exchange/printer status.
Primary Actor:	System Admin
Goal in	To update kiosk firmware to the latest release as a
Context:	means of preventative maintenance.
Preconditions:	Kiosk is setup and there is internet connection.
Trigger:	Hardware providers release a new version of firmware.
Scenario:	1. Admin remote connects to kiosk.
	2. Admin installs firmware update for all devices
	that got new releases.
	3. After each firmware update admin runs system tests
	to determine if firmware update caused any issues.
	4. If new issues occur admin rollback firmware and
	notifies dev team to address.
	5. Admin ensures kiosk has adequate change and paper.
	6. Admin checks cash collections remaining space.
	7. If need be, admin informs contractor to replace
	change, add paper, or collect cash profits.
	8. Admin logs changes in system.
	9. Admin logs out of kiosk.
Exceptions:	1. System was hacked, admin user no longer has
	rights.
	2. Admin user has no internet connection.
	3. System has been unplugged from power.
	4. Bug prevents admin from pushing out updates to, or
	clearing out past events from, the system.
Priority:	Low, firmware updates can be installed locally if
<u> </u>	need be.
When	Last increment.
Available:	
Frequency of	Once per month.
Use:	
Channel to	Virtual Interface, Company Computer.
actor:	

Works Cited

Pressman, R., and B. Maxim, Software Engineering: A Practitioner's Approach, Eighth Edition, McGraw-Hill, 2015.