



College of

Meducation: A Different Approach to Learning

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Abstract

We report an a study that invostigates of where players, through interactive lossening and gaming, can render information about readinations that is installated pharemaching datas would typically introduce. We relate a province installate of our rele-playing gams, Modunitan, Youning on the modularity, variability, and optimicity of the caNPMODE We also mixed accordingly functions such as the ability to have the MPC's space. This feature also proved effective in the address players are provided to a state of according players.



Introduction

Medication in an educational game focused on teaching the basics of Planmachings, more specifically, the medicine involved. It has Rele-Plaping (PPG) characteristics where you play as a new dester that has sparsed their own clinic.



Uses are introduced to 20 different redications and the engaging sciences involving patients and their respective conditions to andr tange you encounter a different spatient thousing different spatient. Your jols give their the right medicine for the corresponding symptom.



The Game & Data

percent.





Giving The Medicine & Sect-1- Sine (07) Jepunctions

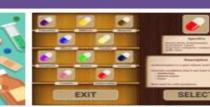
_ helps alleviate migratives or headaches caused by a sudden sensitivity to light or



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After playing the game, players had to take a postsurvey that asked some of the same quantions proviously asked in the pro-survey to assess if they learned and retained information regarding different medications.

If we look at the same question, we can observe an overall positive increase. Compared to the pre-survey results, the rate of "1 don't know" submission decreased to only 25%, while correct submission, "Samatriphan" increased by accent 25%.





End Level Score

Before playing the game, players had to take a pre-survey to assess their knowledge on different medications.

F we look at this specific question, we can see that only 27.8% of participants knew the correct answer, being "Samatripton." Accard 50% of the participants answered with " don't know," while the remaining participants chose the incorrect medicines "Beassport" and "Lorazopans."

helps alleviate migrates or headscheix paused by a sudder satelying to light or



#### **Player** Feedback

The gaves was evaluated on by over 20 students at the Callage of States bland, including those is the rewriting department. The gave also received professional feedback frame experts in the Feabhcase indexty. Students: were write-indext also if the gaves as a firm roug to been and ansate: their heavefulge of planetacology. Everywere leved the graphics and the BPC-apple gavesplay.

At the same time, perdominants in the inductry orthogoed the readies of the game. The game basely simplified the prescription process, another we may note transmite that are maded for serial file spinors are many more transmitted that are maded for serial file same baseling terms requested by the response were any series stands out the mark flat coveral, the response were any settlers, and the feedback was includibly highly.



#### The graphics were basedolely alone, but the process was for for elegible Three blands who has consequentian. If the wrong readicine is given.

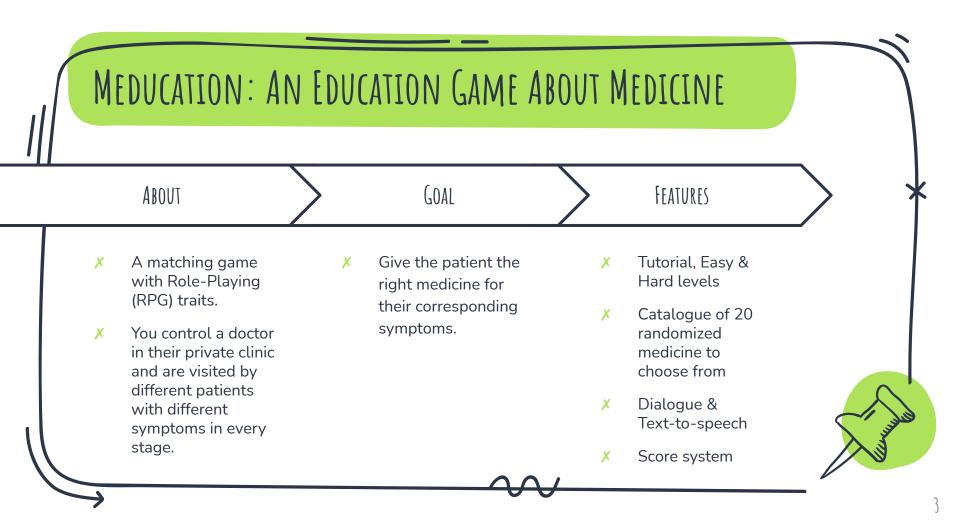
#### Conclusion

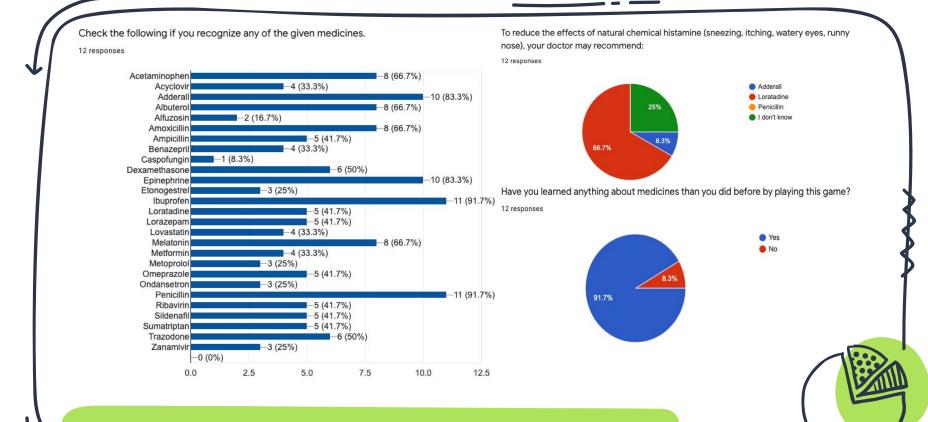
Responses uses collected through a por-survey with a part-survey pharplaying the ignore). The souths of this phot study uses porvising. The data drawed that half of the anomaly starking in the journers operator correct, where the highest correct submission for a given question one 1995. This tend was used for node of the anomalous questions in the part-porcey, averaging to a 60-4% correct submission state. This case is digitized instance in correct submissions compared to the pre-to-resy, where the rate of correct submissions compared to the pre-to-resy, and the of correct submission compared to only 4500°, showing that after glaping the gave, there was a 10.855 increase in assesse correct submission.

These results neggest that game-based learning can be effective when learning and retaining information about medications.

#### Future Work

- Improve on the realism of the game by adding situations in which the patient's symptoms escalate if you give them the wrong medicine.
- Shorton the amount of time it takes to choose a medicine and return to the patient.
- Add more dialogue where the doctor gives the patient a plan of action and asks there to roturn later for a checkup.





Post-Survey Results & Conclusions

4) Easy - Level 1 - Meducation - WebGL - Unity 2019.2.3f1 <Metal>

# **GAME DESIGN**

- Built using the Unity game engine with scripts written in C#.
- Exported to WebGL to be played on a browser.
- UI was designed according to the Universal Design Principles.
- Link to the game:

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