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| **Owner requirement** | **Function** | **Type** | **Why decide it belong to function or non-function** |
| David canton | Create user account to use system | Functional | Now a day most application have authentication function to define user roles in a system. This easy to control system and very security. Each of user have to use account to log in to system to buy tickets or other items. Each account will have user information like purchase history and payment information. It is reason why each user will have difference account and Account can be created by themselves. |
|  | User interface must be sleek to show the flair | Non-functional | The most user want to use a system that will be friendly and beautiful interface, but it not really a function to do. It is just a customer feeling about an application and this requirement asks about the user experience when they use the system, what will appear to make them feel satisfied. |
|  | System should be error free | Non-functional | Now a day many applications appear for user exigency and it improve day by day for developer. Application is better and user have bad feeling when they got any error, it is reason why they want to use a best application with no error but it is not like an exactly function to develop, it like a reminder for the programmer to do their best. |
|  | User need to choose their seats when booking. | Functional | Most movie theater ticketing applications will allow users to choose their seats when buying tickets at their app. This gives user comfort and boosts the company's ticket sales. It is a function in system. Because user can choose their seat to make an order if they cannot choose the seats, they will feel bad and it can lead to their not buy behavior. |
|  | Track the location of user | Functional | It is a function in system. It will contribute a lot for company, and help company make statistic data to improve company’s income. This function will allow the company to know the user's location when they buy the ticket. The company can rely on this function to conduct promotional campaigns to customers in other places to improve customer satisfaction. |
| Patricia Hatton | Rate movie and give feedback to other people using system. | Functional | It is a function to get more user interaction and help customer share their opinion with other people. To improve the quality of cinemas, many companies have asked developers to perform the function of collecting customer opinions when they watch a movie at the theater, this is a fairly common function and it can get customer answers by a form question for the purpose of getting customer reviews about the company's service process or movie feeling. |
|  | The system interface should have similar to color of theatre | Non-functional | Today, many companies consider promoting their company's brand to users. one of the ways they often build their system with some dominant colors that customers can easily associate their services. For example, CGV company will use orange tones to attract customers' attention. and BamBoo company uses green as the main color. this contributes a lot to the promotion of their products or services to customers. This request of the customer simply wants the application to have similar colors to the movie theater to corporate the company's brand. |
|  | Show map of seating area to customer | Functional | This function allows users to view the seat location when booking tickets online. This is a necessary function to make a movie theater application and it helps to improve the user experience when using the online ticketing system. Nowadays all cinemas provide the function of showing seats to customers when they make an online ticket purchase. |
|  | Provide user schedule attractions | Non – Functional | Before releasing software to users, they often create advertisements or introduce their products to users. This is a demo of the system features with new functions. This stimulates customers' curiosity about the company's products. It helps people know all the attractions that the company will release in the future. It's really not a function of the system, it's simply a report to the user when there is a change in the future |
|  | Notification when new movies come out | Functional | This can be considered a function when adding a new movie to the system that is about to be released, it will automatically notify the user. This helps users not to miss any movies and boosts the company's revenue. This function allows the user to know which movies have been released. It prompts the user to buy a ticket. |
|  | System can get user feedback | Functional | This function will survey user after watch the movie that they bought. That will help theatre improve the quality. |
| Barney Conway | System allow user choose movie, seat and buy ticket online | Functional | When building an online ticketing system, its basic functions will be choosing a movie and choosing a seat because without these functions the system will not be a movie ticketing system. Most movie theaters will allow users when buying tickets online to choose their favorite seats. This is the basic function of the system, without it, the system will fail. |
|  | User want sale all single sit to avoid case group customer cannot sit together | Functional | It realted to company's business process, instead of the user being able to choose the desired seat, the user will get the seat according to the arrangement of the cinema, because some people want to choose the favorite position there will be some unselected seats. it can also be considered as a function of the system |
|  | Process to counter ticket sales and online sale will be use same database | Non- functional | Users who want to sell tickets online the system will use the same database as the ticketing facility at the counter, it will be easy to manage the company's revenue This is a requirement to use the available database avoid the hassle of managing movie theater revenue. |
|  | This app will generate a digital ticket and allow customer download PDF file | Functional | This function will allow people save payment history and ticket information when they buy online and allow them download ticket information to print their ticket. |
|  | Create a website will have wider audience than an application | Functional | This requirement wants to develop a system on a website platform because it will attract many users, creating a website will be related to other functions of system. |
| Zaria Guay | Generate monthly reports | Functional | This is a function of the system to display all the movie theater sales history, it will summarize the company's sales revenue and show on a report. This function will help employees easily make the company's revenue report |
|  | System allows customer pay for order by PayPal or credit card. | Functional | Today, many businesses apply a lot of payment methods in their business, not only using online banking to pay, most people also use credit cards and PayPal to pay. This function allows them to pay for the order easily. Without this function, people will have difficulty and not be able to pay for their order if they don't have a banking account. This function makes users feel comfortable and motivates them to buy. |
|  | The app should integrate a reward system and let user referring friend. | Functional | This function on the system allows users to collect rewards, this function helps to motivate users to use the cinema's system and buy movie tickets of the cinema. Today, there are many companies that have applied this form in their business. |
| Taylor Lessing | System allows user order other item like popcorn, snack, and drink and delivered to them | Functional | This is a function related to the ordering function, it allows users to have more choices when they make an order. Most of the other online ticketing systems currently on the market allow users to buy tickets and buy fast food sold in movie theaters. This helps to boost the sales and sales revenue of the company. |
|  | Auto save items that they buy before and show it in next time | Functional | Automatically save items that users buy frequently to motivate them to buy more when using the system. This can be considered as an intelligent function of the system. It helps to drive purchases through user habits making users feel more comfortable instead of having to re-select the things they often buy. |
|  | System will allow user notes on the movies they had seen | Functional | The function creates a note linking to a watched movie, which allows users to bookmark the movies they have watched. Users can record the feeling of the movie. That can motivate users to re-watch their favorite movies |
| Manfred Smith | Application allows people create account to use. | Functional | This function is almost imposition on sales systems and online systems. Nowadays many companies require users to create an account to use their system, this improves information security and easier to management the system. |
|  | System allows user select and buy a movie and show an introduction about it. | Functional | Before watching a movie, users are often interested in the introduction of the movie they intend to buy, if the introduction is good, it will attract a lot of viewers. This is a function that is currently available a lot on online ticketing systems. This function allows people to choose the right movie when they buy a ticket. |
|  | System allows people to reserve seats | Functional | This is essential function for user when they buy ticket online and using online ticket application, if they can choose the seat, it will make them satisfy. |

**10 requirements are essential**

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| **Requirements** | **Type** | **Reason** |
| Application allows people create account to use. | Functional | To improve security each customer will have only an account, because it will save purchase history and customer information when they using system. Most application are required user account to use the system, because one system will have many roles to control and it very important to authentication and exactly know who you are. If you use admin account the system will redirect you to admin functions and if you use user account, the system will send you to user functions. |
| System allows user select and buy a movie and show an introduction about it. | Functional | This function help user can see all about the movie that they want to order. This function is essential for user, because they can know exactly what they will order for. Almost application allow people choose they favorite movies and view the movie detail at the same page because it is basic function for a ticket online app. After choose appropriate movie and items customer can pay directly on banking or credit card. |
| System allows people to reserve seats | Functional | This function help user chooses the position that they watch movie, reserve seat is basic function for ticket online app because when they buy a ticket they will choose a good position for these movies, no one want a position that far from screen because they buy same price with other people. |
| System allows user order other item like popcorn, snack, and drink and delivered to them | Functional | Most movie theaters will have a function that allows users to buy items such as popcorn, drinks, snacks when buying tickets online. To bring comfort to users who are using the system Movie Ville company should have this function. To compete with other companies, this function combined with the delivery service to the customer's seat will be a good choice for the company. |
| This app will generate a digital ticket and allow customer download PDF file | Functional | This function is very necessary for the system because it helps users not to waste time checking in at the counter to receive tickets before entering the cinema room. Users can print tickets themselves at home and bring them directly to the cinema room, while also reducing printing costs for the company. |
| System allows customer pay for order by PayPal or credit card. | Functional | When selling tickets online, payment method is the most essential function of the system, besides, choosing reasonable payment methods is very important for the system. Nowadays, banking payment is very popular with online users, but many people use other payment methods such as credit card and PayPal. Therefore, the addition of a form of payment is very necessary for the online ticketing system. |
| Process to counter ticket sales and online sale will be use same database | Non-Functional | The use only one database between online ticket sales and ticket sales at the cinema is very necessary, it helps the company to avoid data loss when use of many different databases, besides it helps to data aggregation is fast and synchronous. Creating monthly sales reports are easier. |
| Notification when new movies come out | Functional | The function of notifying new movies to users is very important because besides advertising movies in the media, it is easier and more effective to notify users of the system. This function allows users to know which new movies have been released and promote their purchase and it helps the company increase ticket sales. |
| System can get user feedback | Functional | Nowadays businesses are very focused on improving their services and systems to attract more customers. To be able to do that they have to get the customer's opinion about their system. The function of taking customer feedback helps the company develop better and do business more efficiently. |
| Generate monthly reports | Functional | Making monthly revenue reports is very important for businesses, but there are many errors in the process of making revenue reports such as data loss or confusion. Therefore, the monthly revenue report generation function is very important to the company, it helps to generate more accurate reports without loss or confusion. |

**MoSCoW Method**

In a particular project, the most important thing is to understand the importance of the work to be done to be able to meet the schedule and complete it on time. Priority can be applied to the specified user requirements. User stories are a very effective way to define requirements, MoSCoW is a prioritization technique to use to manage priority tasks. The use of MoSCoW helps to overcome the problems associated with priority approaches and it is simpler based on relative priorities than using simple classification high, medium or low. The specific use of Must Have, Should Have, Can Have or Won't Have at this point provides a clear indication of the item and its fulfillment expectations.

MoSCoW is an acronym. The two O's are added just to make the word 'moscow' easier to read, other than that it has no meaning at all. M stands for 'Must haves' - must have, S stands for 'Should have' - should have, C for 'Could haves' - could have and W for 'Won't have' - won't or 'Would haves' - would have.

M - MUST HAVES

These are basic requirements and need to be determined before the end of the project. If this of requirements is not met, the project will fail and the product will be unusable. They are the conditions for creating usable products and meeting customer needs.

S - SHOULD HAVES

These are the additional requirements. Priority for these requirements is quite high, but not essential for the final product. The product can still work and be used even if these requirements are not met. However, these requirements will add value to the product if we do it.

C - COULD HAVES

These conditions can be reviewed and implemented if time permits. Otherwise, there is no problem and will not negatively affect the outcome of the project. 'May have' is a lower priority than 'should have'.

W - WOULD HAVES

These are wishes for the future that are often difficult or take a long time to fulfill. If the request is not feasible, do not waste any resources on it. If in case it can be achieved but it will take a lot of time, the request will be considered as "Would have- will have".

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| **Requirements** | **Priority** | **Reason** |
| Application allows people create account to use. | Must have | Today's online systems all require users to create personal accounts to use their system, this contributes to improving the security of the system and keep customer information from being exposed to the outside. Especially information about online purchase transaction history. Without the login step, the system will not know who the user is and it will be difficult to manage users and sell online. |
| System allows user select and buy a movie and show an introduction about it. | Must have | To implement the online ticketing system, the basic function that must be done is the function that allows users to choose their favorite movie and book tickets on the system. Next, the system should have a movie introduction function so that users can get basic information about the movie they are going to watch. |
| System allows customer pay for order by PayPal or credit card. | Must have | When a user uses the online ticketing system, the only payment method that the user can use is the banking payment system. However, not all users use banking to pay for their transactions, today there are 2 more payment methods that are very popular in the market, which are PayPal and credit card. Without this form of payment, it will cause difficulties for users and affect the success of the project. |
| System allows people to reserve seats | Should have | Choosing seats when buying tickets online is very necessary for users, most online ticketing software allows their customers to choose their favorite seats by displaying available positions for users to choose. This function is essential in competing with other companies in the market. If this function is missing, the system can still work well, as the ticket sales at the counter will be randomly arranged. |
| System allows user order other item like popcorn, snack, and drink and delivered to them | Should have | The function that allows users to order other items such as popcorn, snacks, drinks and have them delivered to their seats is a pretty nice service of movie theaters, they provide more products for users to enjoy and create comfort and increase revenue for the company. Today, many businesses have applied this method to their systems. This function is considered as a function that brings the most revenue but without it the system can still operate and bring profits to the company. |
| This app will generate a digital ticket and allow customer download PDF file | Should have | This is a useful function for customers when using the online ticketing service. Instead of waiting at the counter to print tickets, customers can print by themselves at home and bring them to the movie room to check in. |
| Process to counter ticket sales and online sale will be use same database | Should have | The online ticketing system should use the same database as the ticket counter at the movie theater because when using the same database, it will be easier to manage information and avoid errors or missing information. If the database is not shared, the system can still work normally and will not be affected. |
| Notification when new movies come out | Should have | The function of announcing newly released movies will help the company save a lot of costs for product advertising and it brings more efficiency compared to advertising to system users. Notifying users helps them not to miss any movies and helps increase revenue for the company. |
| System can get user feedback | Should have | Currently, companies are focusing on getting customer feedback about the service they are providing, in order to improve service quality from user feedback, thereby helping the company increase income and reputation. |
| Generate monthly reports | Could have | The movie theater's monthly revenue report generation function will help the audit department a lot in collecting data and avoiding information errors. it will be a powerful function to help the company understand their financial situation. However, this function is not necessary in the project, if it is missing, it will not affect the quality of the project. |