Design 3

In this design, I utilized the tree view widget to construct my application. It consists of seven columns of adjustable width; drug, aisle, side, column, row, medical uses, and forms. The column "Forms" was added, because in many cases, patients/ customers might be prescribed to take only a certain dosage form of the drug they need. There is also a vertical scroll bar and a horizontal scroll bar, to enable the pharmacist to read the information present in the different columns and rows. Note that whenever the pharmacist clicks on a certain row, the entire color of that row changes from white to blue, so that the pharmacist could efficiently read the present information.

From another point, there is a sorting function incorporated in the design; it can sort the contents of each column from smallest to largest at the first click on a certain column heading, then from largest to smallest at the second click on a certain column heading.

Drug	Aisle	Side	Column	Row	
Advair Diskus	1	left	1	1	Prevent asthma attacks, flare-ups, or worsening COPD associated with emphysema and/ or chronic bronchitis
Flovent HFA	1	left	1	2	Prevent asthma attacks
Symbicort	1	left	1	3	Prevent bronchospasm in people with asthma or COPD
Spiriva Handihaler	1	left	1	4	Treat symptoms of COPD, including bronchitis and emphysema
Benicar	1	left	2	1	Treat hypertension (high blood pressure) in adults and children who are at least six years old
Diovan	1	left	2	2	Treat hypertension (high blood pressure) in adults and children who are at least six years old. Treat heart failure in adults
Epogen	1	left	2	3	Treat anemia caused by chemotherapy, chronic kidney disease, or by taking zidovudine to treat HIV. Reduce the need for red blood cell transfusions in patients having certain types of surgery
Neulasta	1	left	2	4	Prevent neutropenia (lack of certain white blood cells due to receiving chemotherapy)
Neupogen	1	left	3	1	Treat neutropenia (lack of certain white blood cells caused by cancer, bone marrow transplant, receiving chemotherapy, or by other conditions)
Procrit	1	left	3	2	Treat anemia caused by chronic kidney disease, chemotherapy, or by taking zidovudine to treat HIV. Reduce the need for red blood cell transfusions in patients having certain types of surgery
Pradaxa	1	left	3	3	Reduce the risk of stroke and blood clots in people who have atrial fibrillation
Xarelto	1	left	3	4	Prevent/ treat DVT which can lead to blood clots in the lungs Lower the risk of stroke caused by a blood clot in people with atrial fibrillation
Abilify	1	right	1	1	Treat the symptoms of psychotic conditions like schizophrenia and bipolar I disorder
Cymbalta	1	right	1	2	Treat major depressive disorder in adults. Treat general anxiety disorder in adults and children who are at least seven years old. Treat fibromyalgia, chronic muscle or joint pain, and pain caused by nerve c
Invega Sustenna	1	right	1	3	Treat schizophrenia or schizoaffective disorder
Lunesta	1	right	1	4	Treat insomnia
Lyrica	1	right	2	1	Control seizures and treat fibromyalgia, pain caused by nerve damage in people with diabetes, and post-herpetic neuralgia or neuropathic pain associated with spinal cord injury
Namenda	1	right	2	2	Treat moderate to severe dementia of the Alzheimer's type
Seroquel XR	1	right	2	3	Treat schizophrenia in adults and children who are at least thirteen years old. Treat bipolar disorder in adults and children who are at least ten years old. Help treat major depressive disorder in adults
Vyvanse	1	right	2	4	Treat ADHD in adults and children who are at least six years old. Treat moderate to severe binge eating disorder in adults
Enbrel	1	right	3	1	Treat rheumatoid arthritis, psoriatic arthritis, or ankylosing spondylitis, and to prevent joint damage caused by these conditions. Treat polyarticular juvenile idiopathic arthritis in children who are at least t
Remicade	1	right	3	2	Treat arthritis (rheumatoid and psoriatic), ulcerative colitis, Crohn's disease, ankylosing spondylitis, severe or disabling plaque psoriasis
Rituxan	1	right	3	3	Treat non-Hodgkin's lymphoma or chronic lymphocytic leukemia
Nasonex	1	right	3	4	Prevent asthma attacks, flare-ups, or worsening COPD associated with emphysema and/ or chronic bronchitis
Humalog	2	left	1	1	Improve blood sugar control in adults and children with diabetes mellitus. Treat type 2 diabetes in adults. Treat type 1 diabetes in adults and children who are at least three years old
Humalog Kwikpen	2	left	1	2	Improve blood sugar control in adults and children with diabetes mellitus. Treat type 2 diabetes in adults. Treat type 1 diabetes in adults and children who are at least three years old
Janumet	2	left	1	3	Help improve blood sugar control in adults with type 2 diabetes mellitus
Januvia	2	left	1	4	Treat type 2 diabetes
Lantus	2	left	2	1	Improve blood sugar control in adults and children with diabetes mellitus. Treat type 2 diabetes in adults. Treat type 1 diabetes in adults and children who are at least six years old
Lantus Solostar	2	left	2	2	Improve blood sugar control in adults and children with diabetes mellitus. Treat type 2 diabetes in adults. Treat type 1 diabetes in adults and children who are at least six years old
Levemir	2	left	2	3	Improve blood sugar control in adults and children with diabetes mellitus. Treat type 2 diabetes in adults. Treat type 1 diabetes in adults and children who are at least two years old
Novolog	2	left	2	4	Improve blood sugar control in adults and children with diabetes mellitus. Treat type 2 diabetes in adults. Treat type 1 diabetes in adults and children who are at least two years old
Novolog Flexpen	2	left	3	1	Improve blood sugar control in adults and children with diabetes mellitus. Treat type 2 diabetes in adults. Treat type 1 diabetes in adults and children who are at least two years old

Initially, the drugs are sorted according to aisle

Pharmacy

Drug	Aisle	Side	Column	Row
Abilify	1	right	1	1
Advair Diskus	1	left	1	1
Alimta	2	right	2	2
Atripla	2	right	1	1
Avastin	2	right	2	3
Avonex	3	left	1	1
Avonex Pen	3	left	1	2
Benicar	1	left	2	1
Celebrex	3	right	3	1
Cialis	3	right	1	1
Copaxone	3	left	1	3
Crestor	3	right	1	3
Cymbalta	1	right	1	2
Dexilant	2	left	3	3
Diovan	1	left	2	2
Enbrel	1	right	3	1
Epogen	1	left	2	3
Evista	3	left	2	3
Flovent HFA	1	left	1	2
Gilenva	3	left	1	4

When the pharmacist clicks on the heading "Drug", the drugs get automatically sorted alphabetically (A to Z)

Pharmacy

Drug	Aisle	Side	Column	Row
Zytiga	2	right	3	2
Zetia	3	right	2	1
Xolair	3	right	3	4
Xgeva	3	left	2	4
Xarelto	1	left	3	4
Vyvanse	1	right	2	4
Vytorin	3	right	1	4
Victoza	2	left	3	2
Viagra	3	right	1	2
Vesicare	3	right	2	3
Truvada	2	right	1	2
Tecfidera	3	left	3	2
Synthroid	2	right	3	4
Symbicort	1	left	1	3
Suboxone	3	right	3	3
Stelara	3	left	3	1
Spiriva Handihaler	1	left	1	4
Sovaldi	3	left	3	4
Seroquel XR	1	right	2	3
Sensipar	2	right	3	3

A double click on the heading "Drug" will sort the drugs from Z to A

This alphabetical sorting is especially useful when a client or customer wants to ask the pharmacist about the location and dosage forms of a certain prescription drug. For example, if the contents of the tree view have been initially sorted from smallest to largest according to aisle, the pharmacist can just click on the heading "Drug" to sort the drugs from A to Z, given the customer/ patient requires a drug that starts with a letter from A to L. If the customer/ patient was searching   for a drug that starts with a letter from Z to N, the pharmacist just needs to double click the heading "Drug", taking into consideration the contents of the tree view have been initially sorted from smallest to largest according to aisle. If the patient/ customer was searching for a drug that starts with the letter M, then it doesn't matter how many times the pharmacist clicks on the heading "Drug"; one click on that heading then a scroll down is sufficient for this task.