

Welcome to ACME Bicycle company. We put your team together so we could get a prototype application written for our company. We have another team working on a User Experience for this application, so we need your team to just build out the skeleton of the application. Utilize normal command line output in order to validate that your components are working correctly.

We make a range of Road Bikes and Mountain Bikes. We have a default frame color for each of our different bike styles. Below will be the listed colors and pricing. Before we sell one of our bikes, we perform a series of steps that we want captured. We will also provide those below. Our wheels come in two styles; Wide and normal. Each wheel type has a tire and tube and are specific to each type. We will however offer a white tire as a special order item for either style.

We also provide some custom options that are in addition to our base model bicycles. A limited edition golden frame, leather seat and leather grips. These options come with an additional cost, which will be below. For our Road Bikes, we offer 2 styles: Touring & Vintage. For our Mountain Bikes, we offer 2 styles: Downhill and Cross Country. Only our Mountain Bike line uses wide wheels and tires.

Bike Frame colors: Black, Red, Blue, Green, Chrome

Touring is \$499.99 with a default color of Blue

Vintage is \$299.99 with a default color of Red

Downhill is \$699.99 with a default color of Black

Cross Country is \$599.99 with a default color of Green

Steps performed for each consist of airing tires, taking it for a test ride to ensure the assembly has been done correctly and washing the frame. Each frame has a stamped serial number on it. We need to keep a record of it. Each serial number has a prefix and starting number per model. We need to maintain the most active starting number in order for them to not be duplicated.

Touring prefix: TB901 and a starting number of 951357

Vintage prefix: VB801 and a starting number of 753159

Downhill prefix: DB505 and a starting number of 852654

Cross Country prefix: MB605 and a starting number of 258456

Once the team has a working model based on the requirements above, we need you to create a simple inventory of each style of bike with their default colors. This inventory will be used for validating the sample user experience. The sample user experience from the console will allow a customer to purchase a bike with a receipt of purchase once they checkout.