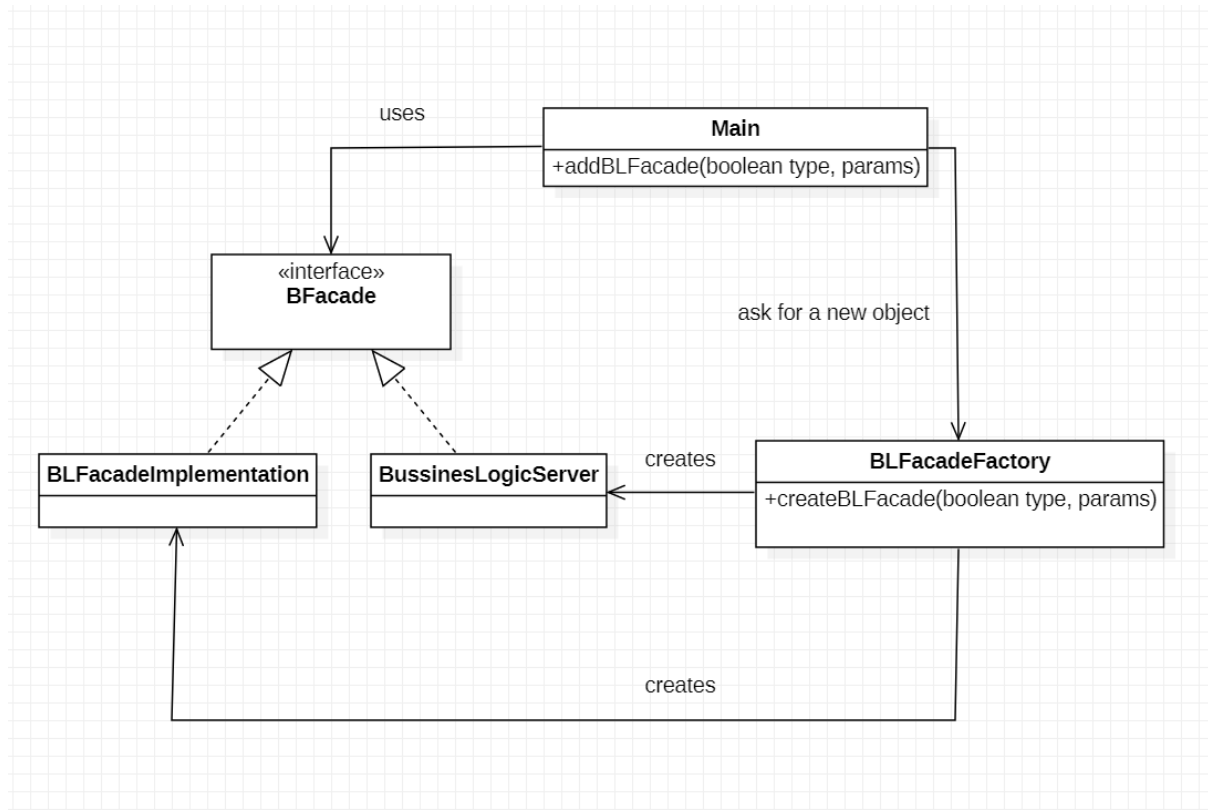# FactoryMethod diseinu partroia bets21Aplikazioan

UML DIAGRAMA

ALDATUTAKO KODEA

Kodean aldatu behar dugun zatiak Appliccation launcher eta BLFacadeFactory klase berrian izango dira. Orain arte aplication launcherreko main metodoan sortzen zen BLFacadea (product), bai online edo bai lokalean(Concrete product). Diseinu patroi hau implementatzeko BLFacadeFactory(Creator) klase berri bat sortu behar dugu, honek izango du main metodoan zegoen BLFacade klasea sortzen zuen kodea.

```java
public BLFacade createBLFacade(ConfigXML c) throws MalformedURLException {

    BLFacade  appFacadeInterface;

    if (c.isBusinessLogicLocal()) {
        DataAccess da= new DataAccess(c.getDataBaseOpenMode().equals("initialize"));
        return new BLFacadeImplementation(da);
    }else{
        String serviceName= "http://"+c.getBusinessLogicNode() +":"+ c.getBusinessLogicPort()+"/ws/"+c.getBusinessLogicName()+"?wsdl";

        //URL url = new URL("http://localhost:9999/ws/ruralHouses?wsdl");
        URL url = new URL(serviceName);

        //1st argument refers to wsdl document above
        //2nd argument is service name, refer to wsdl document above
        QName qname = new QName("http://businessLogic/", "FacadeImplementationWSService");
        QName qname = new QName("http://businessLogic/", "BLFacadeImplementationService");

        Service service = Service.create(url, qname);

        appFacadeInterface = service.getPort(BLFacade.class);
        return appFacadeInterface;
    }
}
```

Application launcherreko main metodoan BLFacadeFactori klaseko instantzia bat sortu behar dugu eta berarkin createBLFacade metodoari deitu ConfigXML ren intantzia (c aldagaia) parametro bezala pasaz.

```java
public static void main(String[] args) {

    ConfigXML c=ConfigXML.getInstance();

    System.out.println(c.getLocale());

    Locale.setDefault(new Locale(c.getLocale()));

    System.out.println("Locale: "+Locale.getDefault());

    MainGUI a=new MainGUI();
    a.setVisible(true);



    try {
        BLFacadeFactory blFacade = new BLFacadeFactory();

        MainGUI.setBussinessLogic(blFacade.createBLFacade(c));


    }catch (Exception e) {
        a.jLabelSelectOption.setText("Error: "+e.toString());
        a.jLabelSelectOption.setForeground(Color.RED);

        System.out.println("Error in ApplicationLauncher: "+e.toString());
    }
    //a.pack();
```