Configuring hibernate with h2

1.Inside the ZenSportsBackEndController of the backend project , add a package , with the name config.

2.Inside this package , add a new java class , with the name HibernateConfig.

3.Annotate this class with @Configuration,@ComponentScan and @EnableTransactionManagement.

4.Inside this class , add the following :

public static final String DATABASE\_URL="jdbc:h2:tcp://localhost/~/Sports";

public static final String DATABASE\_DRIVER="org.h2.Driver";

public static final String DATABASE\_DIALECT="org.hibernate.dialect.H2Dialect";

public static final String DATABASE\_USERNAME="sa";

public static final String DATABASE\_PASSWORD="sports";

5.Creation of three beans .

a.DataSource(providing connection information to the database),add this is class.

// dataSource bean

@Bean

public DataSource getDataSource() {

BasicDataSource dataSource = new BasicDataSource();

// Providing the database connection information

dataSource.setDriverClassName(DATABASE\_DRIVER);

dataSource.setUrl(DATABASE\_URL);

dataSource.setUsername(DATABASE\_USERNAME);

dataSource.setPassword(DATABASE\_PASSWORD);

return dataSource;

}

b.SessionFactory(configures application to use Hibernate and create a session object)

// SessionFactory bean

@Bean

public SessionFactory getSessionFactory(DataSource dataSource) {

LocalSessionFactoryBuilder builder=new LocalSessionFactoryBuilder(dataSource);

builder.addProperties(getHibernateProperties());

builder.scanPackages("net.sports.ZenSportsBackEnd.model");

return builder.buildSessionFactory();

}

private Properties getHibernateProperties() {

Properties properties=new Properties();

properties.put("hibernate.dialect",DATABASE\_DIALECT);

properties.put("hibernate.show\_sql","true");

properties.put("hibernate.format\_sql","true");

properties.put("hibernate.hbm2ddl.auto","update");

return properties;

}

Note: import org.springframework.orm.hibernate5.LocalSessionFactoryBuilder;(this has to be correwcted to 5 , initially it will be 4).

c.HibernateTransactionManager(to manage hibernate transactions)

//Transaction manager

@Bean

public HibernateTransactionManager getTransactionManager(SessionFactory sessionFactory)

{

HibernateTransactionManager transactionManager=new HibernateTransactionManager(sessionFactory);

return transactionManager;

}

NOTE : import org.springframework.orm.hibernate5.HibernateTransactionManager;(this has to corrected to 5 again)