Hibernate 小組報告: 會員登入及註冊

EEIT109 第六組

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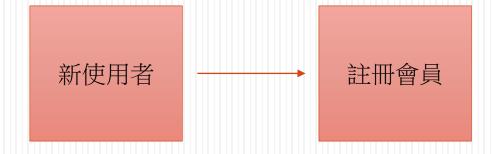
組員:

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簡報大綱

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使用者導覽



舊使用者 登入會員

使用者導覽—新使用者

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註冊會員

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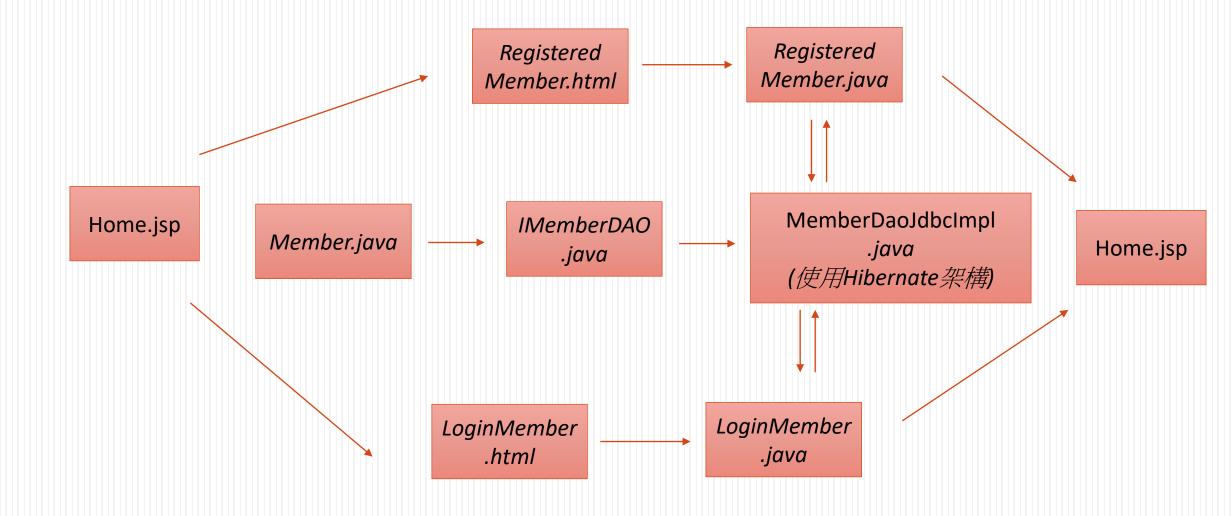
遊戲討論區遊戲商城

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使用者導覽——舊使用者

回首頁 遊戲討論區 遊戲商城 電競新聞 註冊會員 登入會員 密碼:					登 力	· 帳號·
登入 忘記密碼	回首頁	遊戲討論區遊戲商城	電競新聞記冊會員	登入會員	<u> </u>	密碼:
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程式架構



Hibernate程式片段——資料庫連線設定

Context.xml

Hibernate程式片段——資料庫連線設定

hibernate.cfg.xml

```
cproperty name="hibernate.connection.datasource">java:comp/env/connectSqlServerJdbc/HibernateServicecyproperty name="hibernate.current_session_context_class">thread</property>
cproperty name="hibernate.show_sql">true</property>
cproperty name="hibernate.format_sql">true</property>
<mapping class="com.eeit109team6.memberDao.Member" />
```

Hibernate程式片段—Sessionfactory建立

HibernateUtil.java

```
package com.eeit109team6.memberDao;
.mport org.hibernate.SessionFactory;
public class HibernateUtil {
   private static final SessionFactory sessionfactory = createSessionFactory();
   private static SessionFactory createSessionFactory() {
       try {
           StandardServiceRegistry serviceRegisty = new StandardServiceRegistryBuilder().configure().build();
           SessionFactory factory = new MetadataSources(serviceRegisty).buildMetadata().buildSessionFactory();
           return factory;
       }catch (Exception e) {
           e.printStackTrace();
           throw new ExceptionInInitializerError(e);
   public static SessionFactory getSessionfactory() {
       return sessionfactory;
   public static void closeFactory() {
       if (sessionfactory != null) {
           sessionfactory.close();
```

Hibernate程式片段—當專案開啟連線資料庫

SessionFactoryListner.java

```
package com.eeit109team6.servletlistener;
import javax.servlet.ServletContextEvent;
public class SessionFactoryListner implements ServletContextListener {
    @Override
    public void contextInitialized(ServletContextEvent sce) {
        HibernateUtil.getSessionfactory();
        System.out.println("Session Factory is Created");
    @Override
    public void contextDestroyed(ServletContextEvent sce) {
        HibernateUtil.closeFactory();
        System.out.println("Session Factory is Closed");
```

Hibernate程式片段—處理Transaction

OpenSessionViewFilter.java

```
package com.eeit109team6.servletfilter;
import java.io.IOException;
@WebFilter("/OpenSessionViewFactory")
public class OpenSessionViewFilter implements Filter {
    public void doFilter(ServletRequest request, ServletResponse response, FilterChain chain)
        SessionFactory Sessionfactory = HibernateUtil.getSessionfactory();
        try {
            Sessionfactory.getCurrentSession().beginTransaction();
            System.out.println("Transaction Begin");
            chain.doFilter(request, response);
            Sessionfactory.getCurrentSession().getTransaction().commit();
            System.out.println("Transaction Commit");
        } catch (Exception e) {
            Sessionfactory.getCurrentSession().getTransaction().rollback();
            System.out.println("Transaction Rollback");
            e.printStackTrace();
        } finally {
            Sessionfactory.getCurrentSession().close();
            System.out.println("Transaction Closed");
```

Hibernate程式片段—JavaBean

Member.java

```
package com.eeit109team6.memberDao;
import javax.persistence.Column;
@Entity
@Table(name = "member")
public class Member {
    private int member id;
    private String account ;
    private String password ;
    private String username ;
    private String idnumber ;
    private String sex ;
    private String birth ;
    private String registeredtime ;
    private int isactive;
    private String token;
    private String address;
    @Column(name = "ACCOUNT")
    public String getAccount() {
        return account;
    public void setAccount(String account) {
        this.account = account;
```

Hibernate程式片段——DAO

IMemberDao.java

```
package com.eeit109team6.memberDao;
.mport java.sql.Connection;
oublic interface IMemberDao {
   public int add(Member m) throws SQLException;
   public void update(Member m) throws SQLException;
   public void delete(Member m) throws SQLException;
   public ArrayList<Member> fintAll() throws SQLException;
   public Member fintById(Member m) throws SQLException;
   public Member login(Member m) throws SQLException;
   public boolean openActive(Member m) throws SQLException;
   public void forgetPwd(Member m) throws SQLException;
   public void changePwd(Member m) throws SQLException;
   public boolean checkAccount(Member m) throws SQLException;
```

```
package com.eeit109team6.memberDao;
import java.sql.Connection;
public class MemberDaoJdbcImpl implements IMemberDao {
   private Connection conn;
    private Session session;
    private SessionFactory sessionFactory;
    public MemberDaoJdbcImpl(SessionFactory sessionFactory) {
        this.sessionFactory = sessionFactory;
    public SessionFactory getSessionFactory() {
       return sessionFactory;
    @Override
   public int add(Member m) throws SQLException {
        getSessionFactory().getCurrentSession().save(m);
       return m.getMember_id();
```

```
@Override
public Member login(Member m) throws SQLException {
    System.out.println("account" + m.getAccount());
    System.out.println(m.getPassword());
    List<Member> memList = null;
    Query query = getSessionFactory().getCurrentSession()
            .createQuery("from Member where account = ?1 and password = ?2 and isactive = 1");
    query.setParameter(1, m.getAccount());
    query.setParameter(2, m.getPassword());
    memList = (List<Member>) query.getResultList();
    System.out.println("memList.size()" + memList.size());
    if (memList.size() != 0) {
        return memList.get(0);
    } else {
        return null;
```

```
@Override
public Member fintById(Member m) throws SQLException {
    List<Member> memList = null;
    Ouery query = getSessionFactory().getCurrentSession()
            .createQuery("from Member where member id = ?1 and token = ?2");
    query.setParameter(1, m.getMember id());
    query.setParameter(2, m.getToken());
    memList = (List<Member>) query.getResultList();
    if (memList.size() != 0) {
        memList.get(0).setIsactive(1);
        return memList.get(0);
    } else {
        return null;
```

```
@Override
public boolean openActive(Member m) throws SQLException {
   List<Member> memList = null;
   Query query = getSessionFactory().getCurrentSession()
            .createQuery("from Member where member id = ?1 and token = ?2");
    query.setParameter(1, m.getMember id());
   query.setParameter(2, m.getToken());
   memList = (List<Member>) query.getResultList();
   if (memList.size() != 0) {
        memList.get(0).setIsactive(1);
        return true;
   } else {
       return false;
```

```
@Override
public void forgetPwd(Member m) throws SQLException {
   List<Member> memList = null;
   Query query = getSessionFactory().getCurrentSession().createQuery("from Member where account = ?1");
   query.setParameter(1, m.getAccount());
   memList = (List<Member>) query.getResultList();
   if (memList.size() != 0) {
        memList.get(0).setToken(m.getToken());
   } else {
        System.out.println("找不到該帳號");
```

```
@Override
public void changePwd(Member m) throws SQLException {
   List<Member> memList = null;
   Query query = getSessionFactory().getCurrentSession()
            .createQuery("from Member where account =?1 and token = ?2");
    query.setParameter(1, m.getAccount());
    query.setParameter(2, m.getToken());
   memList = (List<Member>) query.getResultList();
    if (memList.size() != 0) {
       memList.get(0).setPassword(m.getPassword());
    } else {
       System.out.println("找不到該帳號");
```

```
@Override
public boolean checkAccount(Member m) throws SQLException {
    System.out.println("checkAccount");
    List<Member> memList = null;
    Query query = getSessionFactory().getCurrentSession().createQuery("from Member where account =?1");
    System.out.println("m.getAccount()" + m.getAccount());
    query.setParameter(1, m.getAccount());
    System.out.println("query.getSingleResult() ===="+query.getSingleResult());
    memList = (List<Member>) query.getResultList();
    if (memList.size() != 0) {
        return false;
    } else {
        return true;
```

```
com.eeit109team6.servletmember;
import java.io.IOException;
@WebServlet("/RegisteredMember")
oublic class RegisteredMember extends HttpServlet {
   private static final long serialVersionUID = 1L;
   @Resource(name = "jdbc/team6project")
   private DataSource ds;
   Connection conn;
   private SessionFactory sessionFactory;
   protected void doPost(HttpServletRequest request, HttpServletResponse response)
       request.setCharacterEncoding("UTF-8");
       response.setContentType("text/html;charset=UTF-8");
       String account = request.getParameter("account");
       String password = request.getParameter("password");
       String alladdress = request.getParameter("alladdress");
       String username = request.getParameter("username");
       String idnumber = request.getParameter("idnumber");
       String sex = request.getParameter("sex");
       String birth = request.getParameter("birth");
       System.out.println("sex = " + sex); // true
       System.out.println("(sex == null) = " + (sex == null)); // true
```

```
if (account != "" && password != "" && alladdress != "" && username != "" && idnumber != "" && sex != null
       && birth != "") {
   Calendar rightNow = Calendar.getInstance();
   String registeredtime = rightNow.get(Calendar.YEAR) + "-" + (rightNow.get(Calendar.MONTH) + 1) + "-"
          + rightNow.get(Calendar.DATE) + " " + rightNow.get(Calendar.HOUR) + ":"
          + rightNow.get(Calendar.MINUTE) + ":" + rightNow.get(Calendar.SECOND);
   int isactive = 0;
   String key = "MickeyKittyLouis";
   String password_AES = CipherUtils.encryptString(key, password).replaceAll("[\\pP\\p{Punct}]", "")
          .replace(" ", "");
```

```
Member mem = new Member();
mem.setAccount(account);
mem.setPassword(password AES);
mem.setUsername(username);
mem.setIdnumber(idnumber);
mem.setAddress(alladdress);
mem.setSex(sex);
mem.setBirth(birth);
mem.setRegisteredtime(registeredtime);
mem.setIsactive(isactive);
KeyGenerator keyGen;
    keyGen = KeyGenerator.getInstance("AES");
    keyGen.init(256, new SecureRandom());
    SecretKey secretKey = keyGen.generateKey();
    byte[] iv = new byte[16];
    SecureRandom prng = new SecureRandom();
    prng.nextBytes(iv);
    Long math = Long.valueOf((long) (Math.random() * 999999999));
    String token notformat = AES CBC PKCS5PADDING.Encrypt(secretKey, iv, math.toString());
    String token = token notformat.replaceAll("[\\pP\\p{Punct}]", "").replace(" ", "");
    mem.setToken(token);
} catch (Exception e) {
    e.printStackTrace();
```

```
sessionFactory = HibernateUtil.getSessionfactory();
int memberId = 0;
try {
   IMemberDao MemDao = MemberDaoFactoery.createMember(sessionFactory);
   memberId = MemDao.add(mem);
   System.out.println("id:" + memberId);
} catch (SQLException e) {
   // TODO Auto-generated catch block
   e.printStackTrace();
//=========/寫進資料庫=============
```

```
String host = "smtp.gmail.com";
int port = 587;
                                                                   mytw2000@gmail.com";
                               """ | The state of the sta
Properties props = new Properties();
props.put("mail.smtp.host", host);
props.put("mail.smtp.auth", "true");
props.put("mail.smtp.starttls.enable", "true");
props.put("mail.smtp.port", port);
Session session = Session.getInstance(props, new Authenticator() {
          protected PasswordAuthentication getPasswordAuthentication() {
                     return new PasswordAuthentication(Email, EmailPwd);
});
try {
          Message message = new MimeMessage(session);
           message.setFrom(new InternetAddress("
          message.setRecipients(Message.RecipientType.70, InternetAddress.parse(account));
           message.setSubject("驗證信");
          message.setText("Wellcome To FootBook \n http://localhost:8090/EEIT109 35/CheckMember.do?id=" + memberId
                                 + "&token=" + mem.getToken());
           Transport transport = session.getTransport("smtp");
           transport.connect(host, port, Email, EmailPwd);
           Transport.send(message);
          System.out.println("寄送email結束.");
          request.setAttribute("msg", "請至您輸入的信箱收取驗證信開通帳號");
          RequestDispatcher rd = request.getRequestDispatcher("member/jump.jsp");
```

```
rd.forward(request, response);
   } catch (MessagingException e) {
      throw new RuntimeException(e);
} else {
   System.out.println("註冊 else");
   PrintWriter out = response.getWriter();
   out.write("<script>alert('你是不是想找麻煩!');history.go(-1);</script>");
   out.close();
```

Hibernate程式片段——會員登入

LoginMember.java

```
package com.eeit109team6.servletmember;
import java.io.IOException;
@WebServlet("/LoginMember")
public class LoginMember extends HttpServlet {
   private static final long serialVersionUID = 1L;
   private SessionFactory sessionFactory;
   private Session hbSession;
   protected void doPost(HttpServletRequest request, HttpServletResponse response)
       System.out.println("login" + request.getParameter("login"));
       System.out.println("fergetpwd" + request.getParameter("fergetpwd"));
       if (request.getParameter("fergetpwd") != null) {
           RequestDispatcher rd = request.getRequestDispatcher("/member/forgetPWD.html");
           rd.forward(request, response);
       } else {
           request.setCharacterEncoding("UTF-8");
           response.setContentType("text/html;charset=UTF-8");
           String account = request.getParameter("account");
           String password = request.getParameter("password");
           String key = "MickeyKittyLouis";
           String password AES = CipherUtils.encryptString(key, password).replaceAll("[\\pP\\p{Punct}]", "")
                    .replace(" ", "");
```

Hibernate程式片段——會員登入

LoginMember.java

```
Member mem = new Member();
mem.setAccount(account);
mem.setPassword(password_AES);
HttpSession session = request.getSession();
IMemberDao MEMDao = null;
sessionFactory=HibernateUtil.getSessionfactory();
   MEMDao = MemberDaoFactoery.createMember(sessionFactory);
   Member member = MEMDao.login(mem);
   System.out.println("member != null = " + (member != null));
   if (member != null) {
       session.setAttribute("username", member.getUsername());
       session.setAttribute("token", member.getToken());
       session.setAttribute("account", member.getAccount());
       session.setAttribute("member_id", member.getMember_id());
       response.getWriter().write("<script>alert('歡迎光臨');</script>");
       request.setAttribute("msg", "歡迎光臨");
       RequestDispatcher rd = request.getRequestDispatcher("member/jump.jsp");
       rd.forward(request, response);
    } else {
       response.getWriter().write("<script>alert('帳號或密碼錯誤,或者未開通');history.go(-1);</script>");
} catch (SQLException e) {
   // TODO Auto-generated catch block
    e.printStackTrace();
```

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