

Project Name: Chitti - Remote Robot Management

Team Name: Dread Fuel

# Deployment Guide: Publishing the Project to a Web Address

This guide explains how to deploy the Remote Robot Management Cloud System to a public web address using Firebase Hosting.

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## Prerequisites

- Firebase project set up in the [Firebase Console](https://console.firebaseio.google.com/) (<https://console.firebaseio.google.com/>)
  - Firebase CLI installed (`npm install -g firebase-tools`)
  - Node.js installed (for Firebase CLI)
  - Project files ready in your local directory
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## 1. Log in to Firebase

```
firebase login
```

- Follow the browser prompt to authenticate with your Google account.
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## 2. Initialize Firebase Hosting (if not already done)

```
firebase init hosting
```

- Select your Firebase project
- Set `public` as the public directory

- Configure as a single-page app if prompted (type `y`)
  - Do **not** overwrite `index.html` if asked
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## 3. Review Firebase Configuration

- Ensure `firebase.json` and `.firebaserc` are correctly set up for your project
  - Confirm your static files are in the `public/` directory
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## 4. Deploy to Firebase Hosting

```
firebase deploy
```

- This uploads your site to Firebase Hosting and provides a public web address (URL)
  - The CLI will display the hosting URL after deployment (e.g., `https://your-project-id.web.app`)
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## 5. Access Your Web App

- Open the provided URL in your browser to view your deployed site
  - Share this URL with users or stakeholders
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## 6. Updating the Site

- Make changes to your local files as needed
- Re-deploy with:

```
firebase deploy
```

- The site will update at the same web address
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## 7. Troubleshooting & Common Issues

### Error: Not Authorized or Project Not Found

- Make sure you are logged in with the correct Google account
- Check that your Firebase project exists and you have access

## Error: Hosting Setup Not Complete

- Run `firebase init hosting` again and follow the prompts

## Files Not Updating

- Clear your browser cache or use a private/incognito window
- Confirm you are editing files in the `public/` directory

## Custom Domain Setup

- In the Firebase Console, go to Hosting > Add Custom Domain
  - Follow the instructions to verify your domain and update DNS records
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## 8. Additional Resources

- [Firebase Hosting Documentation](https://firebase.google.com/docs/hosting) (<https://firebase.google.com/docs/hosting>)
  - [Firebase CLI Reference](https://firebase.google.com/docs/cli) (<https://firebase.google.com/docs/cli>)
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For further assistance, contact your Engineering department or project lead.