

PROJECT NAME - BuildQcheck

Group2

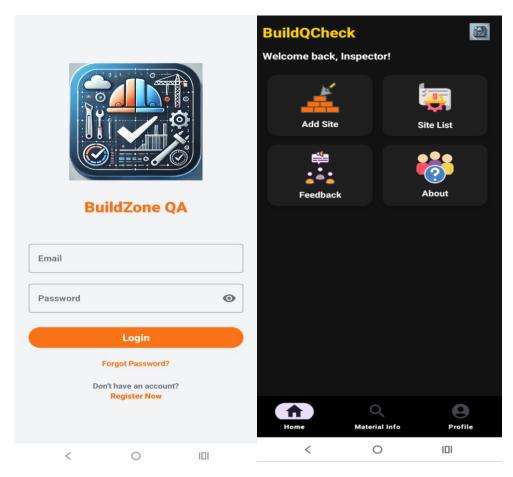
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Introduction - BuildQcheck

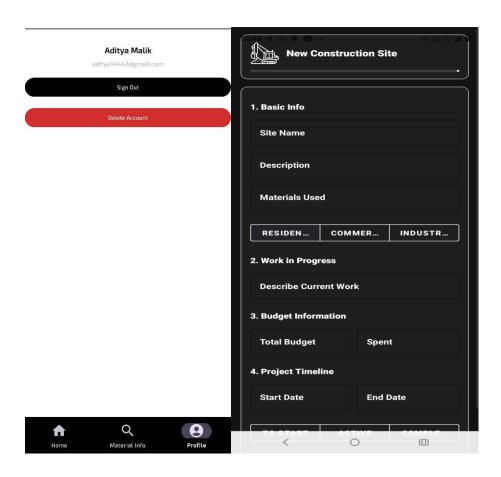
The construction quality monitoring application is built around a main HomeScreen, which serves as the starting point for accessing all key features of the app.

- The SiteListScreen shows a list of ongoing construction projects. From here, users can tap on any site to open the SiteDetailsScreen, where they can explore specific options related to that site:
 - The CheckQualityScreen allows field workers to carry out real-time quality inspections.
 - The ReportIssueScreen lets users record any problems or safety concerns they notice on-site.
 - The ViewReportsScreen gives users the ability to look back at previous inspections and reports for reference and tracking.
- To register a new construction site, users can use the AddSiteScreen.
- The ProfileScreen provides access to personal user data, settings, and the option to log out.

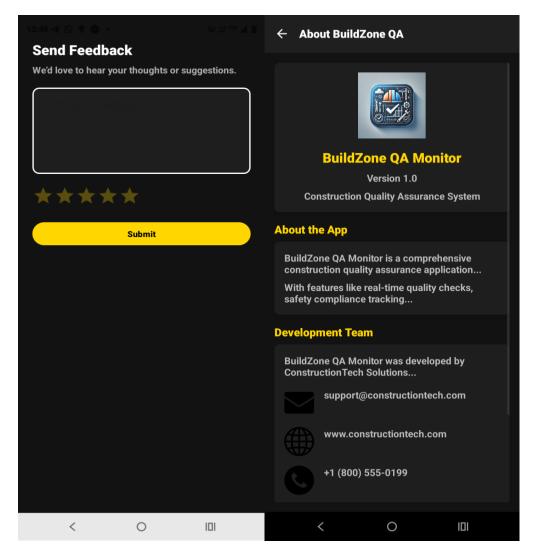
Login page and Home page



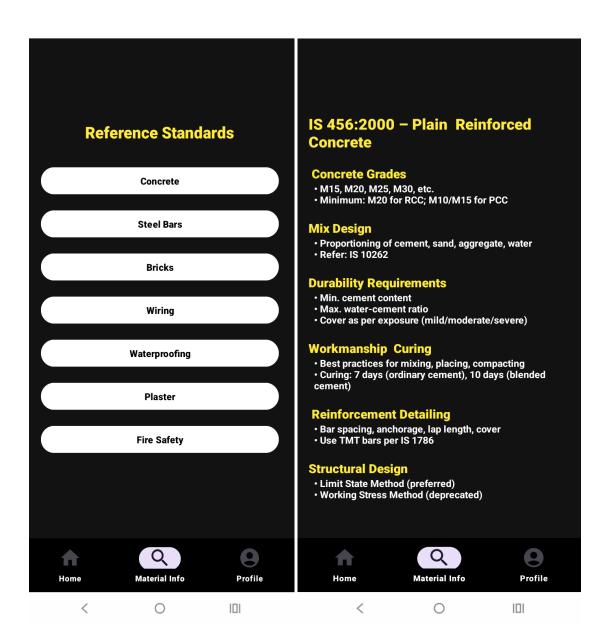
Profile and Add Site



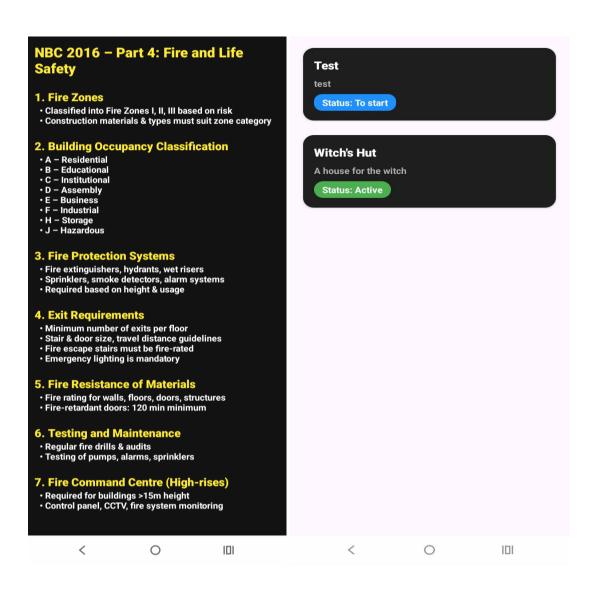
Feedback and About App



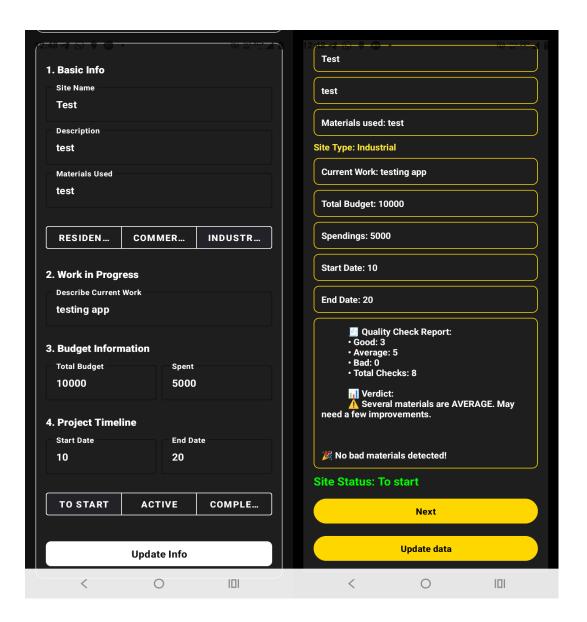
Materials Info



Material Info and Sitelist



Quality Check



SIGN UP

```
| package con.example.bpc | laport | la
```

Sign in

Forgot Password

Splash Screen

```
package com.example.bqc

import ...

class SplashScreen : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        enableEdgeToEdge()
        setContentView(R.layout.activity_splash_screen)
        android.os.Handler().postDelayed({
        val i = Intent( packageContext: this,SignIn::class.java)
        startActivity(i)
        finish()
    }, delayMillis: 1000)

}

delayMillis: 1000)
```

About Screen

```
package com.example.bqc

import ...

class AboutScreen : AppCompatActivity() {
    private lateinit var binding: ActivityAboutScreenBinding

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        binding = ActivityAboutScreenBinding.inflate(layoutInflater)
        setCoupertActionBar(binding.root)

        setSupportActionBar?.setDisplayHomeAsUpEnabled(true)
        supportActionBar?.title = ""
        val versionName = packageManager.getPackageInfo(packageName, 0).versionName
        binding.txtVersion.text = "Version $versionName"
}

fun openPrivacyPolicy(view: View) {
    val intent = Intent(Intent.ACTION_VIEW, Uri.parse("https://www.constructiontech.com/privacy"))
        startActivity(intent)
}

fun openTermsOfService(view: View) {
    val intent = Intent(Intent.ACTION_VIEW, Uri.parse("https://www.constructiontech.com/terms"))
        startActivity(intent)
}

override fun onSupportNavigateUp(): Boolean {
    finish()
        return true
}
```

Add Site

```
db.collection( collectionPath: "sites").document(documentId).update(siteData as Map<String,Any>).addOnCompleteListener {

Toast.makeText( context: this, lext: "Site added successfully",Toast.LENGTH_SHORT).show()

val intent = Intent( packageContext: this, MainActivity::class.java)

startActivity(intent)

finish()

}.addOnFailureListener {

Toast.makeText( context: this, lext: "Failed to add document",Toast.LENGTH_SHORT).show()

val intent = Intent( packageContext: this, MainActivity::class.java)

startActivity(intent)

finish()

}

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}

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}

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}

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}
```

Feedback

Home Fragment

```
package com.example.bqc

import ...

class homefragment: Fragment() {
    override fun onCreateView(
    inflater: LayoutInflater,
    container: ViewGroup?,
    savedInstanceState: Bundle?

): View? {
    val view = inflater.inflate(R.layout.homefragment, container, lattachToRoot false)
    val addSite = view.findViewById<CardView>(R.id.btnAddSite)
    addSite.setonClickListener {
    val intent = Intent(requireContext(), AddSite::class.java)
    startActivity(intent)
    }
    val siteList = view.findViewById<CardView>(R.id.btnSiteList)
    siteList.setonClickListener {
    val intent = Intent(requireContext(), SiteList::class.java)
        startActivity(intent)
    }
    val feedback = view.findViewById<CardView>(R.id.btnSubmitFeedback)
    feedback.setOnClickListener{
    val intent = Intent(requireContext(), Feedback::class.java)
        startActivity(intent)
    }
    val about = view.findViewById<CardView>(R.id.btnAbout)
    about.setOnClickListener{
    val intent = Intent(requireContext(), AboutScreen::class.java)
        startActivity(intent)
    }
    val intent = Intent(requireContext(), AboutScreen::class.java)
        startActivity(intent)
    }
    return view
}
```

Material info fragment

Profile Fragment

```
class profilefragment: Fragment() {
    private lateinit var firebaseAuth
    overlide fun onfreateView(
        inflater: Layoutinflater,
        container: ViewForoup?,
        savedinstanceState: Bundle?
)    View? {
        firebaseAuth = FirebaseAuth.getInstance()
        val væw = inflater.inflate(R.layout.profilefragment,container, latmentroRoot false)
        val væw = inflater.inflate(R.layout.profilefragment,container, latmentroRoot false)
        val væw = vindeter.inflate(R.layout.profile_mamil).text = firebaseAuth.currentUser?.email.toString()
        val væw.findvlewById

profileRame.text = it.displayName.toString()

yal signOut = view.findvlewById

val signOut = view.findvlewById

val val signOut = view.findvlewById

val val viet = view.findvlewById

val deleteAccount = rinetn(requireContext(), SignIn::class.java)

startActivity(intent)
        requireActivity().finish()

deleteAccount = view.findvlewById&Button>(R.id.btn_delete_account)
        deleteAccount = view.findvlewById&Button>(R.id.btn_delete_account)
```

QualityCheck

Report Issues

Site Actions

```
package com.example.bqc

import ...

class SiteActions : AppCompatActivity() {
    private lateinit var binding: ActivitySiteActionsBinding
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState) enableEdgeToEdge()
        binding = ActivitySiteActionsBinding.inflate(layoutInflater)
        setContentView(binding.root)

val documentID = intent.getStringExtra( name: "documentID")
        binding.qualityCheck.setOnClickListener {
            val i = Intent( packageContext this, MainActivity::class.java)
            i.putExtra( name: "documentID", documentID)
            }
            binding.qualityCheck.setOnClickListener {
            val i = Intent( packageContext this, QualityQuiz::class.java)
            i.putExtra( name: "documentID", documentID)
            startActivity(i)
            }
            binding.report.setOnClickListener {
            val i = Intent( packageContext this, ReportIssues::class.java)
            i.putExtra( name: "documentID", documentID)
            startActivity(i)
            }
            binding.report.setOnClickListener {
            val i = Intent( packageContext this, ReportIssues::class.java)
            i.putExtra( name: "documentID", documentID)
            startActivity(i)
            }
            report issues::class.java)
            i.putExtra( name: "documentID", documentID)
            startActivity(i)
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            report issues::class.java)
```

Site Details

```
| package com.example.bqc | package com.example.bqc | package com.example.bqc | private lated | private lated
```

```
}
} addOnFailureListener {

Toast.makeText( context: this, text: "Failed to fetch data", Toast.LENGTH_SHORT).show()

finish()

binding.nextBtn.setOnClickListener {

val i = Intent( packageContext: this, SiteActions::class.java)

i.putExtra( name: "documentID", documentID)

startActivity(i)

binding.updateBtn.setOnClickListener {

val i = Intent( packageContext: this, AddSite::class.java)

i.putExtra( name: "documentID", documentID)

startActivity(i)

}

binding.updateBtn.setOnClickListener {

val i = Intent( packageContext: this, AddSite::class.java)

i.putExtra( name: "documentID", documentID)

startActivity(i)

}

}

}

}

}
```

Site List

```
package con-example.Sqc

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```

```
class SiteLast : AppCompatactivity() {
    private lateinit var recycleryles; Recycleryles
    private lateinit var recycl
```